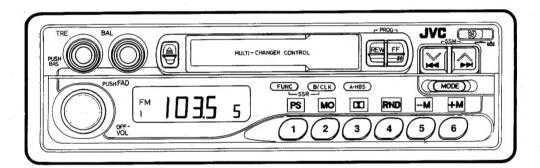
# JVC

# SERVICE MANUAL

# Multi-chancer control receiver

# KS-RT70 B/E/G/GE/GI





Area Su	ıffix
B	U.K.
E	···· Continental Europe
G	Germany
GI	·····Italy
GE	······Eastern Europe,
	Austria and Switzland

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#### **Features**

- **Detachable Control Panel**
- Controller for control of CD changers containing up to 108 compact discs (for example, when 6 JVC XL-MG1800 CD Changers are connected, each XL-MG1800 contains 3 magazines so that this controller can access the discs in 18 magazines; with each magazine containing 6 discs, consequently it gives access to up to 108 discs)
- High Sensitivity Tuner
- AM/FM-Stereo PLL Synthesizer Tuner
- 24-Station Preset Tuning (FM-18, AM (MW/LW)-6)
- Preset scan/Seek/Manual Tuning
- Strong-station Sequential Memory (SSM)
- SK/DK Traffic Information Reception (KS-RT70 G/GE)
- Special-preset Station Reserve (SSR)
- U-Turn Auto-Reverse Mechanism

- Ignition Key-off Release/Key-on Play Mechanism
- Dolby\* B Noise Reduction
- 4-Channel Amplifier System Maximum Power Output of 8 W per channel (Front)/25 W per channel (Rear)
- Active Hyper Bass Sound
- Active-illuminated Operating System (AOS)
- Clock
- Line Output Terminal

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol DD trademarks of Dolby Laboratories Licensing Corporation.

### Specifications

#### **AUDIO AMPLIFIER SECTION**

Maximum Power Output:

(Front) 8 W per channel (Rear) 25 W per channel

Continuous Power Output (RMS):

(Front) 3 W per channel into 4  $\Omega$ , 100 to 20,000

Hz at no more than 0.8% THD

(Rear) 12 W per channel into 4  $\Omega$ , 40 to 20,000

Hz at no more than 0.8% THD

Load impedance: 4 Ω (4-8 Ω Allowable)

Tone control Range

Bass: ±10 dB at 100Hz

Treble: ±10 dB at 10 kHz

Frequency Response: 40 - 20,000 Hz

Signal-to-Noise Ratio: 70 dB

Line-Output Level/impedance:

0.5 V/20 kΩ load (250 nWb/m)

#### RADIO SECTION

Frequency Range

FM: 87.5 - 108.0MHz

AM: (MW) 522 - 1,620 kHz (LW) 144 - 281 kHz (Manual)

144 - 279 kHz (Auto)

#### [FM Tuner]

Usable Sensitivity: 12.1 dBf (1.1 μV/75Ω)

50 dB Quieting Sensitivity: 16.3 dBf

(1.8 μV/75Ω)

Alternate Channel Selectivity (400 kHz): 65 dB

Frequency Response: 40 - 15,000 Hz

Stereo Separation: 35 dB

Capture Ratio: 1.5 dB

[MW Tuner] Sensitivity: 20 µV Selectivity: 35 dB

[LW Tuner] Sensitivity: 50 µV

#### CASSETTE DECK SECTION

Wow & Flutter: 0.11 % (WRMS)

Fast Wind Time: 100 sec. (C-60)

Frequency Response (NR-OFF): 50 - 16,000 Hz (±3

(8b

Signal-to-Noise Ratio (Normal tape)

(Dolby NR on): 60 dB

(Dolby NR off): 52 dB

Stereo Separation: 40 dB

Power Requirement

Operating Voltage: DC 14.4 V (11 V - 16 V Allowable)

Grounding System: Negative Ground Dimensions (W x H x D)

Installation Size: 182 x 52 x 152 mm

(7-13/16" x 2-1/16" x 6")

Panel Size: 189 x 58 x 15 mm

(7-1/2" x 2-5/16" x 5/8")

Gross Weight: 2.1 kg (4.7 lbs)

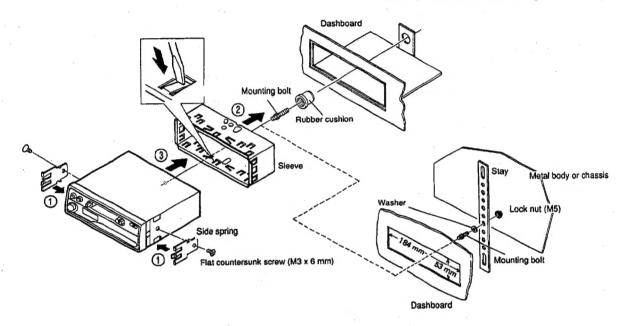
Design and specifications subject to change without notice.

### Installation(IN-DASH Mounting)

- Before using this unit for the first time, press the eject button fully.
- The following illustration shows a typical installation, however, always adjust to correspond to the car in which the unit is to be installed. If you have any questions and for installation kits, consult a JVC "IN-CAR ENTERTAINMENT" dealer.
- Attach the side springs.
   Install the sleeve in the dashboard.
  - After the sleeve is installed in the dashboard, select and bend the appropriate tabs to hold the sleeve firmly in place.

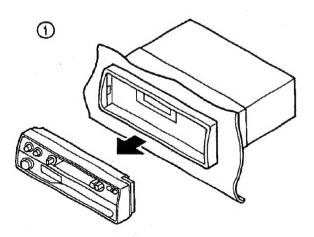
Next, mount the mounting bolt onto the rear of the unit's body and slide the rubber cushion onto this bolt.

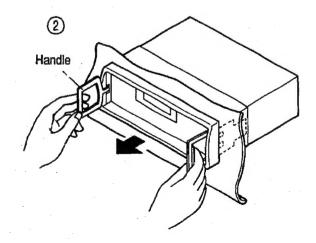
- Slide the body of this unit into the sleeve so that they are locked together.
- Follow the numbers for mounting.



#### Removing the body of unit

- · Before removing the body of this unit, remove the nut, connector, etc. retaining the rear section.
- 1 Remove the Control Panel by sliding the release switch ( ) to the right.
- 2 As illustrated, insert the handles between the side springs and sleeve. Then, slide the unit out while pressing the handles toward each other.





#### **■** Electrical Connections

To prevent short circuits, while making connections, keep the battery's negative terminal disconnected.

We recommend that you make all electrical connections before installing the unit. If you're not sure how to correctly install this unit, have it installed by a qualified service technician.

This unit is designed for 12 volts DC, Negative Ground. If your vehicle does not have 12 volts negative ground electrical system you need a voltage inverter which can be bought from a JVC "IN-CAR ENTERTAINMENT" dealer.

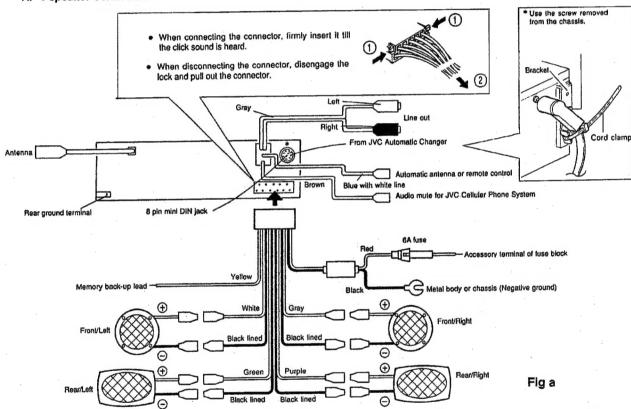
• Maximum input of speakers should be more than 25 W at rear and 8 W at front with an impedance of 4 to 8  $\Omega$ .

Cautions:

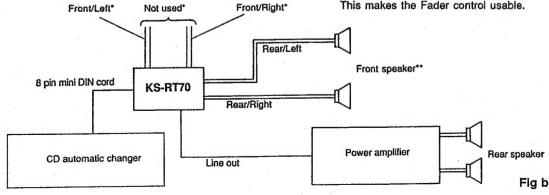
This unit uses BTL (Balanced Transformerless) amplifier circuitry, i.e., floating ground system, so please comply with the following:

- Be sure you do not connect the black lined speaker leads to a common point.
- Don't connect speaker leads to the metal body or chassis.
- When not using the automatic antenna or audio mute lead, cover the terminal with insulating tape to prevent the lead from shorting.
- Be sure to ground this unit to the car's chassis.

#### A. 4-speaker connections



 B. 4-speaker connection by adding a power amplifier  When making the 4-speaker connections using a power amplifier, connect the front speakers to the rear speaker cords. (In such a case, do not use the front speaker cords.") This makes the Fader control usable.



# C. Line terminal connections (Line out)

Since this unit has line-out terminals, an amplifier and other equipment can be used to upgrade your car stereo system.

 When connecting an amplifier, connect this unit's line-out terminals with the amplifier's line-in terminals.

# D. Power aerial (Automatic antenna) connections

This set is equipped for the automatic extension and retraction of a power aerial when the power switch is turned on and off. The connection from the audio unit (REMOTE blue with white line lead) is via a separate relay to the fully automatic aerial motor unit incorporating a built-in terminal circuit.

#### E. Memory back-up lead

Connect this lead to a position where live power is supplied even when the ignition key is taken out.

#### F. Fader control

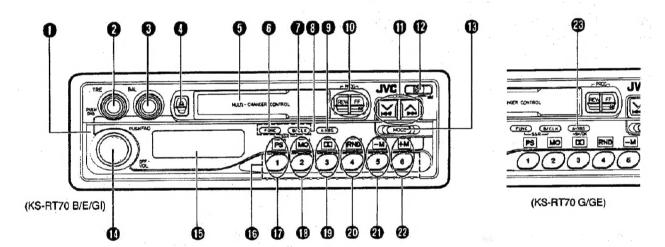
 When used in a 4-speaker system (Fig. a)

Use this control to balance the volume levels of the front and rear speakers. Turn counterclockwise to decrease the volume levels of the rear speakers and clockwise to decrease those of the front speakers. The overall volume level can be adjusted with the volume knob.

 4-speaker connection system by adding a power amplifier (Fig. b)

Turn clockwise to decrease the volume level of the rear speakers which are connected to the power amplifier and counterclockwise to decrease that of the front speakers which are connected directly to the receiver.

 When used in a 2-speaker system Set this control to the center position.

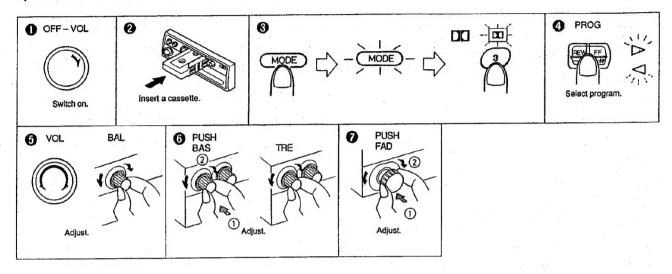


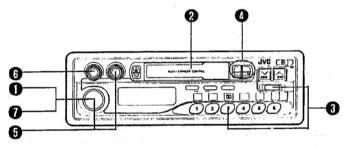
- Control panel
- Treble (TRE)/Push Bass (PUSH BAS)
- 3 Balance (BAL) control
- Eject (♠) button
- 6 Cassette loading slot
- 6 Function (FUNC) button
- Band (B)/Clock (CLK) button
- Special-preset Station Reserve (SSR)
   buttons
- Active Hyper Bass Sound (A.HBS) button (KS-RT70 B/E/GI)
- Program (PROG)/REW, FF buttons
- Tuning/SSM/Time adjustment/Skip (Search) buttons Down frequency/Hour adjustment (√)/(►
  Up frequency/Minute adjustment
  - ( A \// > \/
  - (**△**)/(**▶►**)
- (2) Control panel release ( ) switch

- MODE button
- Power on-OFF/volume (VOL)/Push fader (PUSH FAD) control
- Display window
- Preset station buttons (No. 1 No. 6)
  Disc number buttons (No. 1 No. 6)
- Active Hyper Bass Sound button (A.HBS) SK/DK button (KS-RT70 G/GE)
- Press the following buttons (n 20) after the MODE button has been pressed and its indicator is lit red. 5 seconds after the completion of an operation, the MODE button's red indicator will go out.
- Preset Scan (PS) button and indicator
- (MO) button and indicator
- Dolby B NR (DD) button and indicator
- @ Random (RND) button and indicator
- Magazine select (-M) button and indicator
- Magazine select (+M) button and indicator

### Tape operation

Operate in the order shown.





#### Dolby B NR button

Set the Dolby B NR ( □□ ) button as required after the MODE button has been pressed and its red indicator is lit.

ON - □□ indicator lights.

OFF - DD indicator goes out.

# IGNITION KEY-OFF RELEASE (KEY-ON PLAY) MECHANISM

When the ignition key is turned off, this "key-off release" mechanism will automatically release the tape from the magnetic head. This will set the mechanism to the standby mode. When the key is turned on, it will automatically return to the playback mode.

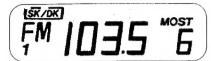
# TO FAST FORWARD AND REWIND THE TAPE

Press the FF button to fast forward the side being played back; when the end of the tape is detected, the tape is reversed and played back from the beginning of the other side. Press the REW button to rewind the tape. When the tape is rewound to the beginning, it is played back again. Lightly press the other PROG button to start play from the current position during the fast forward or rewind mode.

#### **AUTO-REVERSE MECHANISM**

When the tape reaches the end of one side, this mechanism automatically switches over to play back the other side. To listen to the other side while playing one side, press the PROG buttons. The change in the tape transport direction can be checked from the Tape Direction indicators.

3



Indicators (for tuner section) Band (FM1-FM2-FM3-AM) Radio frequency Preset Station FM Stereo (ST) Mono (MO) SK/DK (KS-RT70 G/GE)





Indicators (for tape deck section)
TAPE mode
Tape direction (◄►)
Dolby B NR (□□)

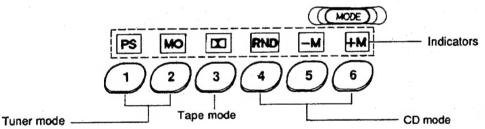
2



Indicators (for CD changer control)
Disc number
Track number
Magazine number
DISC
TRACK
MAG
RND
--CE1-CE8

Indicator (for other controls)
Time
( ② )
AOS

# Active-illuminated Operating System (AOS)



The indicators corresponding to each mode light up green in order to make operation simple. (For example, the PS and MO indicators light when the tuner mode is engaged. When the MODE button is pressed while engaged in the tuner mode, the PS and MO indicators blink. If one of the required mode buttons is pressed while the PS and MO are blinking, the corresponding operation mode is engaged.)

\*Each time the power is switched on, "AOS" is displayed.

#### \*AOS demonstration mode

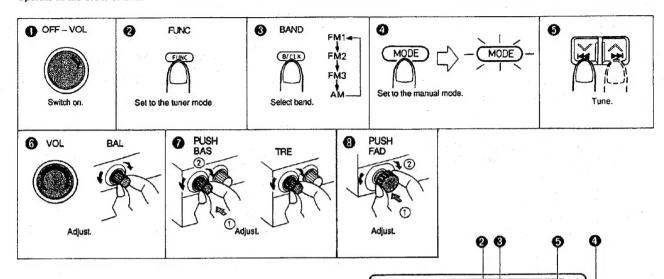
In this mode, each of the AOS indicators alternately blinks.

Press the preset station button (2) for more than 3 seconds while pressing the FUNC button, to set the AOS demonstration mode. When this unit is in AOS demonstration mode, normal operation of the KS-RT70 is possible, with functions being indicated in the display. (After the operation is completed, AOS demonstration mode will be resumed in 15 seconds.)

To cancel this mode, press the preset station button (2) for more than 3 seconds while pressing the FUNC button.

### Radio Operation

Operate in the order shown.

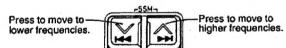


#### MANUAL TUNING

Set to the manual mode using the MODE button. When the MODE button's light is red, the unit is in the manual mode. Then, by pressing the Tuning button, you can move up and down the frequency band. The frequency band is scanned as long as either button is pressed. You can step through the frequency in 50 kHz units for FM, 9 kHz units for MW and 1 kHz unit for LW.

In AM operation, the frequency moves continuously from the MW (522 – 1,620 kHz) to the LW (144 – 281 kHz) band and vice versa.

 When approx. 5 seconds have elapsed after completion of manual tuning operations, the unit switches back to the seek mode and the MODE button's red indicator goes out.



#### **SEEK TUNING**

The unit is set to the seek mode when the MODE button's red indicator goes out. Then, by pressing the  $\wedge$  or  $\vee$  button the unit tunes to the adjacent station with a higher or lower frequency.

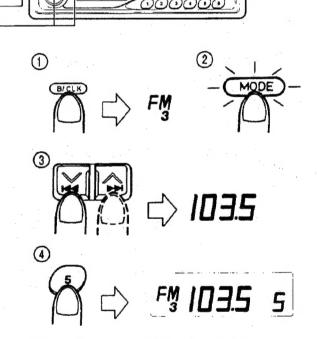
In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

#### PRESET BUTTON TUNING

#### Presetting stations

6 stations in each band (FM1, FM2, FM3 and AM (MW/LW)) can be preset as follows;

 Example (when presetting Preset Station button "5" to FM station at 103.5 MHz)



8

- Select the FM3 band using the band (B) button.
- ② Set to the manual mode.
- 3 Tune to the desired station.
- Press Preset Station button "5" for more than 2 sec. (When "5" blinks in the Preset Station display, the station is preset.)
- Repeat the above procedure for each of the other 5 stations using a different Preset Station button each time.
- Follow the above procedure for the other bands (FM1, FM2 and AM (MW/LW)).

#### Notes:

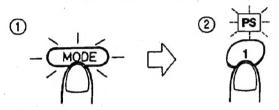
 The previous preset station is erased when a station is newly preset because the new station is stored in memory.  The preset station is erased when the power supply to the memory circuit is interrupted during battery replacement, etc. When this occurs, preset the station again.

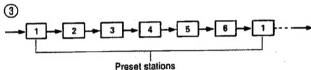
#### Preset tuning

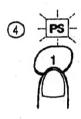
- Select the band using the band (B) button.
- Press the required preset station buttons (No.1 - No.6).

#### PRESET SCAN BUTTON TUNING

This makes it possible to automatically scan preset FM and AM (MW/LW) stations







- Press the MODE button to light its red indicator.
- While the red indicator is lit, press the PS button.
- ③ Scanning is performed in the order of preset stations in each frequency band (FM1, FM2, FM3 and AM). Each preset station is heard for approx. 5 seconds.
- When the required station is heard and its frequency is blinking, press the PS button again.

# STRONG-STATION SEQUENTIAL MEMORY (SSM)

This function searches for FM and AM (MW/LW) stations broadcasting strong signals; the 6 strongest stations are held in memory in the order of increasing frequency and can be recalled with the preset buttons 1 – 6. (Procedure)

① When the MODE button's red indicator goes out, press the SSM buttons (√, ∧) for more than 3 seconds. The 6 strongest signals in the band to which you are listening (FM1, FM2, FM3 and AM (MW/LW)) will be searched and selected automatically. These 6 stations are preset in the preset buttons (1 - 6) in the order of increasing frequency. (During this operation "--" tights in the display.)

The receiver then tunes to the broadcast stored in preset button "1" automatically.

#### Note:

Previously preset stations are cancelled automatically when SSM is used.

#### MONO BUTTON

When listening to FM, set the MO button to stereo or mono after the MODE button has been pressed and its red indicator is lit.

Note: Set to mono when a stereo FM broadcast is too noisy and cannot be heard satisfactorily.

# RECEIVING TRAFFIC INFORMATION BROADCASTS (G/GE version only)

- Select the FM1, FM2 or FM3 band using the Band (B) button.
- Press the SK/DK button for more than 1 second before operation. The SK/DK indicator lights.
- 3. Perform Seek Tuning to search for a station broadcasting traffic information. When such a station is received, the SK/DK indicator will light and the broadcast can be heard.
- 4. As long as the radio is set to receive the traffic information station, even if you are listening to a cassette tape or CD, when traffic information is broadcast, it will automatically be heard, and once the broadcast is over, sound from the cassette or CD will automatically be restored.

Even when listening to a cassette tape or CD, if the signal from the current traffic information station becomes weak, a stronger traffic information station is searched automatically.

#### Notes:

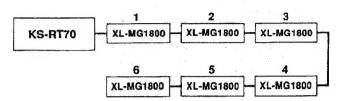
- You can only operate the SK/DK button in the FM mode.
- When listening to an FM broadcast, if the tuner is not set to a traffic information station approx. 5 seconds later an alarm tone will be heard; if the reception is poor, the alarm will occur after 30 seconds. In such a case, perform Seek Tuning or press the SK/DK button for more than 1 second.

### CD Automatic Changer Operation

#### **PRECAUTIONS**

- This unit is for the control of JVC Compact Disc Automatic Changers which must be purchased separately (applicable models; XL-MK500/ MG700RF/MG1800).
- For use, refer to the instructions of the CD automatic changer.
- When a cassette tape is loaded while listening to a CD, CD playback is automatically switched to cassette playback.
- When there is no disc in the disc magazine of the CD automatic changer or when the disc is inserted into the tray upside down, the "---" will be shown in the KS-RT70 display. In such a case, remove the disc magazine from the CD changer and set the discs correctly.
- When "O E1 O E7" is shown in the display
  of the KS-RT70, press the RESET button of
  the CD changer. When "O E8" is shown,
  confirm that the connections have been
  made securely.
  - \* The "O" shows the number of the CD changers connected to the KS-RT70.

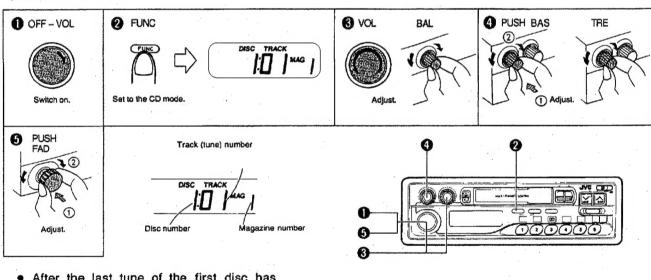
Example: When 6 XL-MG1800 changers are connected.



("5E1" means that the 5th CD changer is the cause of the trouble.)

#### PLAYING COMPACT DISCS

To play all tunes Operate in the order shown.



 After the last tune of the first disc has been played, the disc on the next tray automatically starts from its beginning. If there is no disc on the tray, the display shows the "- - -" and the following disc is played.

#### MAGAZINE SELECTION

Magazine select button

Press the magazine select button (+M/-M) after the MODE button has been pressed and its red indicator is lit to select the required magazine.

(Example: to select the 3rd magazine with the XL-MG1800 changer connected.)

 When selecting the 10th or higher magazine with four or more XL-MG1800 changers connected, the unit's digit of the magazine number blinks. Light

For example, when the 18th magazine is being selected, the "8" blinks.

#### DISC SELECTION

Direct Disc Selection

Use the disc No. buttons (1-6) to select the required disc from the magazine, the number of which is shown in the display.

Press the disc No. button (1 - 6) corresponding to the No. of the required disc. CD play starts when the disc No. and track No. indicator light.

Example: (to designate Disc 5)



#### SKIP PLAYBACK

 During playback, when skipping to the beginning of the next tune or the tune being played back or the previous tune, the beginning of the tune is easily located and the playback starts from there.

To listen to the next tune ...

Press the button once to skip to the beginning of the next tune.

To listen to the previous tune ...

Press the button to skip to the beginning of the tune being played back and press again to skip to the previous tune.



### Digital Clock Display

Selectable between the clock display on or off.

When listening to a tape (or CD), each time the CLK button is pressed, the time mode or tape (or CD) mode can be selected.

When the unit is in the tuner mode, press the CLK button for more than 2 seconds to select the time mode.

When the tuner or CD is operated in the time mode, the display will switch to tuner or CD mode, then, after a brief period will return to the time mode.

 When the magazine select, disc select and skip operations are performed in sequence, the required tune from the required disc can be selected.

# SEARCH PLAYBACK (to locate the required position on the disc)

- The required position can be located using fast-foward or reverse search during playback.
- Hold down the button and the search playback starts slowly and then gradually increases speed.
- Since a small sound (about one quarter of playback level) can be audible in both modes, release the button when the required position is located while monitoring the sound.

Keep pressing for the fast-reverse search the fast-forward search

#### RANDOM PLAYBACK

Each time the RND button is pressed after the MODE button has been pressed and its red indicator is lit, the mode is changed from Random 1 mode (the RND indicator lights) to Random 2 mode (the RND indicator blinks) to clear mode, in this order.

#### Random 1:

Plays all tunes on the disc currently being played back once, in random order, then tunes from the subsequent disc in their order on the disc.

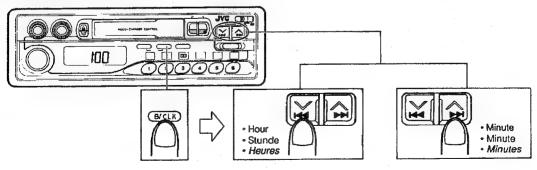
#### Random 2:

Randomly selects a disc other than the one currently being played, a tune on this disc is selected at random, and it is played.

When listening to a tape, "TAPE" or time mode is shown on the display.

#### • To adjust the time

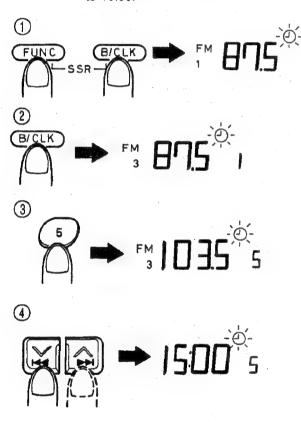
When the display is in time mode, while keeping the CLK button pressed, press the Hour adjustment button (>) to adjust the "hours", and the Minute adjustment button (^) to adjust the "minutes."



### Special-Preset Station Reserver (SSR)

The SSR (Special-preset Station Reserve) automatically tunes in to any FM or AM preset program once a day, at a programmed time from any of the operating modes; tuner, tape, or CD. This function guarantees that you will not miss important information such as weather reports or traffic information, etc.

- Set current time before using the SSR. (See page 36.)
- The station must be preset before using the SSR. (See page 24.)
- Example: When setting the FM station which has been preset to the preset button (5) of the FM3 band to 15:00.



(Procedure)

- While pressing the FUNC button, press the B/CLK button for more than 2 seconds to preset a program. (" (2)" indicator blinks.)
  - Perform the next operation while the "@' indicator blinks.)
- Select the required band (i.e. FM3 in the example) using the band (B) button.
- Select the required station (i.e. 5) which has been preset using the preset station button.
- Set the required time (i.e. 15:00) using the time adjustment buttons.
- ⑤ Press the B/CLK button for more than 2 seconds while pressing the FUNC button, to preset the SSR. (Presetting is completed when the preset band, frequency and time indicators blink and "④" indicator lights.)
- If the " " indicator stops blinking during presetting, perform the operation again from procedure ①.
- While the FUNC button is pressed, press the B/CLK button once to check the preset program.
- Press the B/CLK button for more than 2 seconds while pressing the FUNC button to cancel the SSR mode. (The " (4)" indicator is goes out.)

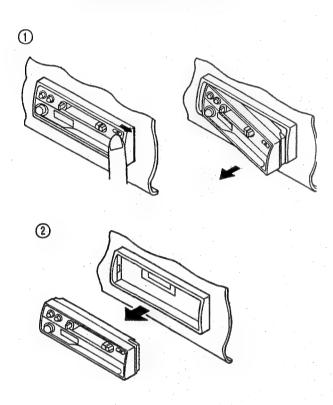
#### Notes:

- Once the SSR has been set, the start time and broadcast station are stored in the microprocessor. When changing the start time and/or broadcast station, perform procedures ① to ③ again.
- After setting the SSA, if a preset station is changed, the renewed station is stored in the program station of the SSR.

(5)

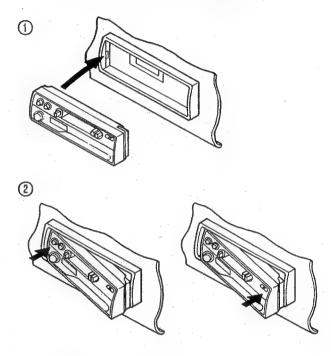
#### ■ To Detach The Control Panel

- ① Slide the control panel release ( 🛥 ) switch in the direction of arrow to detach the control panel.
- Pull the control panel out of the main unit as shown in the figure below.
   After detaching the control panel, put it in the case provided for protection.



#### **■** To Attach The Control Panel

- Align the left side of the control panel to the left side of the holder.
   Press the left side of the control panel first,
- then press the right side to set correctly.



#### Note:

Be careful not to damage the connector terminals when attaching/detaching the control panel or while the control panel is detached.

## **1** Location of Main Parts

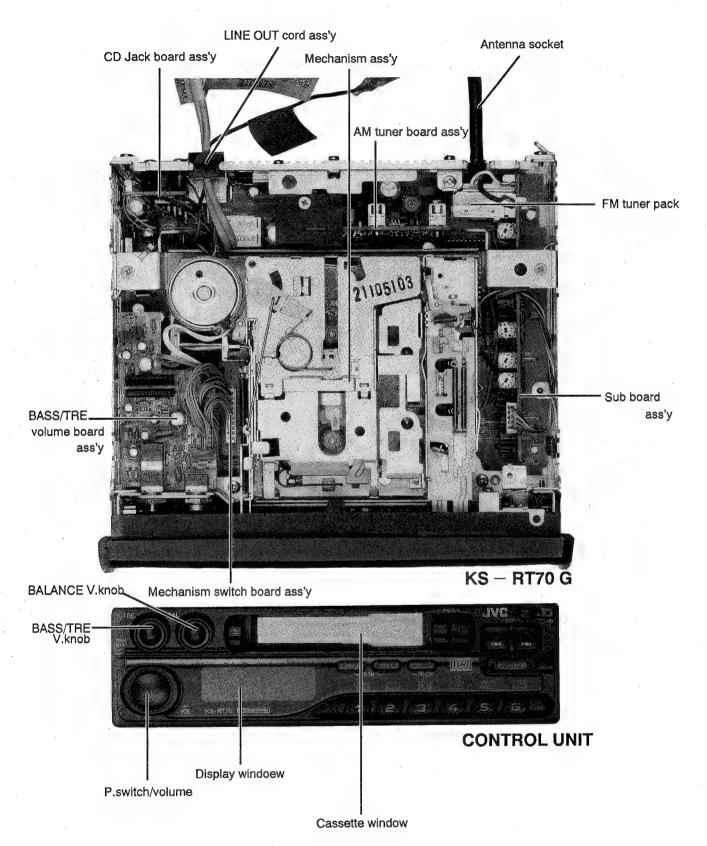


Fig 1 - 1

### 2 Removal of Main parts

#### **■** Enclosure section

#### ♦ Top cover(see Fig.2-1)

- 1. Remove the two screws ① retaining the top cover from backward.
- 2. Remove the four claws A on the right and left side ritaining the top cover.

#### ◆ Bottom cover(see Fig.2-1)

- Remove the one screw ② retaing the bottom cover from backward.
- 2. Remove the four claws B on the right and left side ritaining the bottom cover.

#### ◆ Cotrol unit(see Fig.2-2)

1. Remove the release switch knob by sliding to the right side.

#### ♦ nose piece ass'y(see Fig.2-1)

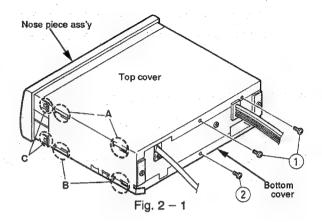
- 1. Remove the four claws C on the right and left side.
- ★ The nose piece ass'y is connected to the main p.c.board by a connector under the [PROG] button on the right side of the mechanism. Dismount the nose piece ass'y by pulling it in straight direction.

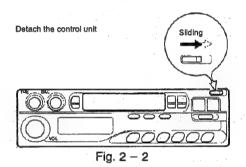
#### ♦ Mechanism ass'y(see Fig.2-3)

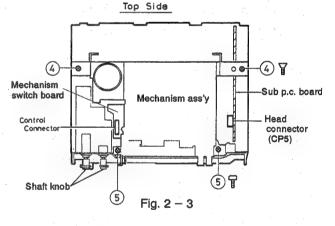
- 1.Remove the four screws (and (5) retaining the mechanism ass'y.
- Disconnect two connectors, namely, the head wire connector(CP5) from the sub p.c. board ass'y and control connector from the mechanism switch board ass'y
- 3. Pull out the mechanism ass'y toward the top side.

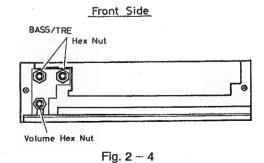
#### ♦ Volume board ass'y(See Fig. 2-3 and Fig. 2-4)

- 1. Remove the mechanism ass'y
- 2. Remove the shaft knobs(knob joint). (see Fig2 3)
- Remove the nuts retaining the BASS/TRE volume and pull out it backward(see Fig.2 - 4).









#### ♦ AM p. c. board ass'y(see Fig. 2-5)

- 1. Remove the one screw 6 retaining the board holder.
- 2. Pull out the AM p. c. board ass'y toward thr top side.

#### ♦ SUB p. c. board ass'y(see Fig. 2-6)

- Remove the one screw Tretaining the FM antenna cord ass'y.
- 2. Remove the one screw ® retaining the FM tuner pack bracket.



1. Remove the two screws (9) retaining the CD jack ass'y.

#### ♦ Front bracket(see Fig. 2-7)

- 1. Remove the two screws (1) retaining the front bracket.
- 2. Remove the shaft knob(knob joint)(see Fig. 2-3).
- 3. Remove the nut retaing the volume.
- ★Under these condition, it will be possible to change the prarts on the main p. c. board ass'y.

#### ◆ Main board ass'y

- 1. Remove the two screws retaining the front power IC and I/O connector(11pin).
- 2. Remove the one screw retaining the main board ass'y from bottom side and unsolder the main board to chassis.

#### ◆ Control unit(see Fig. 2-8)

1. Remove the seven screws ① retaining the cover.

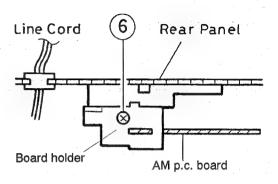
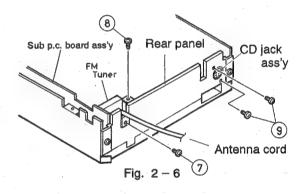


Fig. 2 - 5



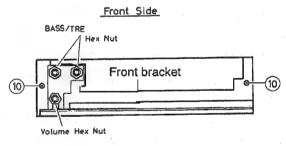


Fig. 2 - 7

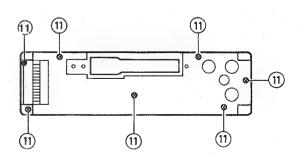


Fig. 2 - 8

#### Mechanism Section

#### ♦ Head Removal(See Fig. 2-9 and 2-10)

- 1. Remove screw 1 retaining the FR lever assembly.
- Left the FR lever assembly up in the direction of the arrow and remove the FR lever assembly from the chassis slots(groove).
- 3. Remove the screw ② retaining the head plate.
- 4. Remove two screws 3 retaining the head.
- When replacing the head make sure to adjust screws(A~D)and perform head angle and height adjustment.

#### ♦ Pinch roller assembly(See Fig. 2-10)

- 1. Remove the nylon washers retaining the left and right pinch rollers.
- 2. Pull out the pinch roller.



Remove two screws(5)retaining the motor assembly.

This operation is facilitated by leaving the belt hooked on to one of the chassis protrusions.



Thread the belt as indicated in the figure when replacing the belt.

Take care to avoid contact with grease or oil when replacing the belt.

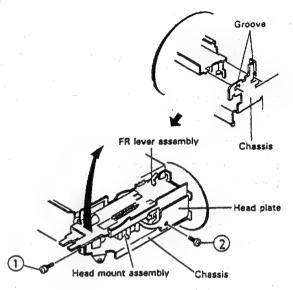


Fig. 2 - 9

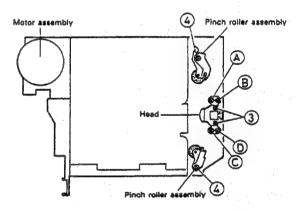
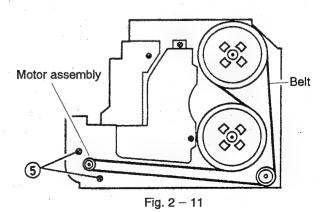


Fig. 2 - 10



### 3 Main Adjustment

# ■ Equipment and measuring instruments used for adjustment

- Electronic voltmetor
- $\bullet$  Audio frequency oscillator (range:50~20kHz and output 0 dB with impedance of 600  $\Omega$  )
- Attenuator(impedance;600 Ω)
- Frequebcy counter
- AM Standard signal generator
- FM Standard signal generator
- Wow flutter mater
- Torqu testing cassette gauge

CTG - N (mechanical adjusting)

TW - 2111A (FWD play)

TW - 2121A (REV play)

Standard tape

VTT704(head azimuth adj.)

VTT712(tape speed,wow&flutter adj.)

VTT724(reference level)

VTT736(playback frequency response)

VTT721 (output level)

SCC - 1659 (mirrer tape)

MTT - 942SP (azimuth)

#### ■ Condition for measurement

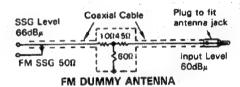
● Power Supply · · · · · DC14.4V (Reduced Voltage:10.5V)

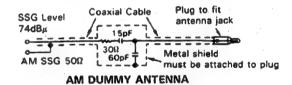
● Load · · · · · 4 Ω

(Tow speaker connection)

- BASS/TRE, FADER · · · · · · Center
- Main volume · · · · · · Position with an output level of 1.4V during VTT724 playback
- Tuner section
- FM;400Hz, 22.5kHz deviation
- FMSTEREO;1kHz, 67.5kHz deviation, pilotsignal 7.5kHz
- AM;400Hz, 30% modulation
- lacktriangle Output impedance ;50  $\Omega$

#### ■ Dummy antenna





#### Preset memory Initialization

		Pre	set Men	nory		
Band	M1	M2	МЗ	M4	M5	M6
FM(MHz)	87.5	89.9	97.9	105.9	108	87.5
AM(kHz)	144	153	522	603	1404	1620

Manual Tuning Up/Down Frequency

FM;50kHz Step AM;9kHz Step

TC30(E/G VERSION ONLY)

T31 O TC1 O L30

T2 O L2

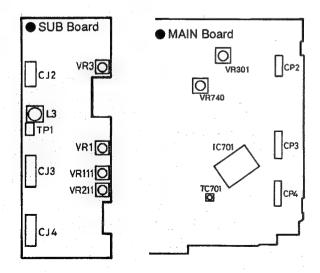
T1 O L2

T30 O (C/J) (E/G)

CJ904 CJ905

(C/J 3PIN)
(E/G SPIN)

#### **■** Location of Adjustment



### ■ Tape section adjustment

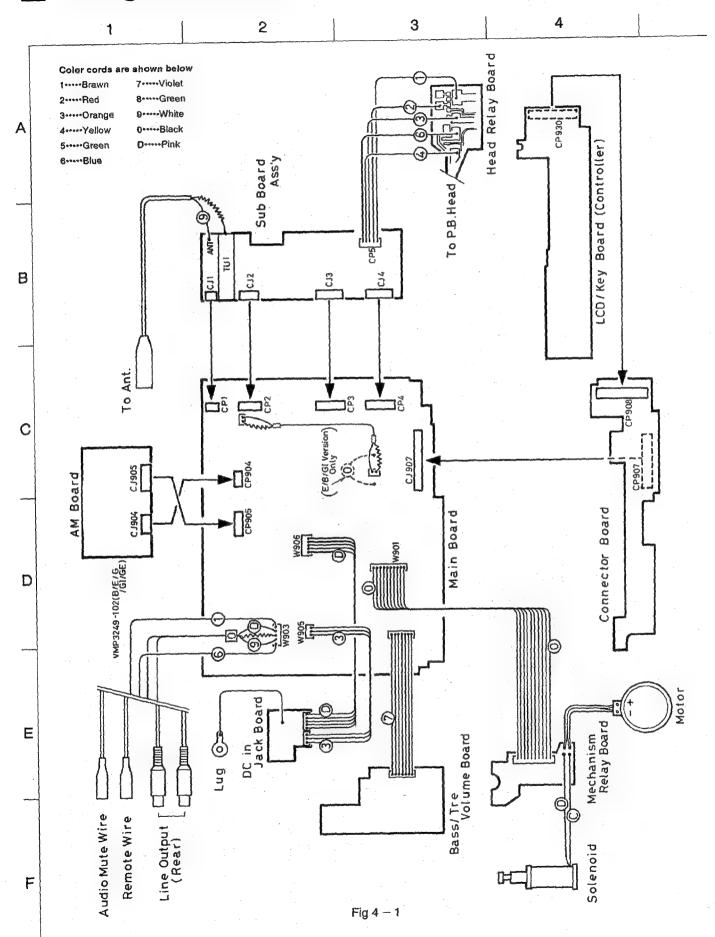
Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
	Conditions Test tape: SCC - 1659 MTT942SP(10kHz)	Adjustment and Confirmation methods  In case the head and its height have been changed, it will be necessary to adjust the height of the head.  1. Adjustment of the height of head  1) When the mirror tape SCC — 1659(2-line tape) is travelling in the FWD direction, adjust the screws A and B so that the line A is located the center of the shield plate between the head channels.  2) When the mirror tape SCC — 1659(2-line tape) is travelling in the REV direction, adjust the screws C and D so that the line B is located the center of the shield plate between the head channels.  2. Head azimuth  1) Adjust the screw B so that the output level becomes maximum(L-R difference level to be within 2 dB) and the phase difference become minimum (less than 90°) when MTT942SP is travelling in the FWD direction.  2) Adjust the screw C so that the output level become maximum (L-R difference level to be within 2-dB) and the phase difference become minimum (less than 90°) when	Head shield  The head during F	A Line d is at low position ND.  B Line d is at high position
		MTT942SP is travelling in the REV direction.  3)By repeating the avove adjustment steps 1) and 2),make sure that the output level and phase difference are as specifed respectively.  4)There is no need to preform bonding after adjustment.	Maximum	(90°)
2. Tape speed and wow flutter confirmantion	Test tape:VTT712 (3kHz)	1.Check to see if the reading of the F. counter/wow flutter meter is within 3015~3045 (FWD/REV), and less than 0.35% (JIS RMS).  2. In case of out of specefication, adjust the motor with a built-in volume resistor.	Tape speed: 3015 ~3045Hz Wow flutter:less than0.35%	Built-in volume resistor
3.Playback frequency response confirmation	Test tape:VTT724 (1kHz) VTT736 (125Hz/1kHz/8kHz)	1. Play test tape VTT724, and set the volume position at 1.4 V 2. Play test tape VTT736 and confirm 1kHz/8kHz: 0 ± 3dB, 1kHz/125Hz: 0 ± 3dB. 3. When 8 kHz is out of specification, it will be nesessary to read adjust the azimuth	Speaker out 1kHz/125Hz :0 ± 3dB 1kHz/8kHz :0 ± 3dB	

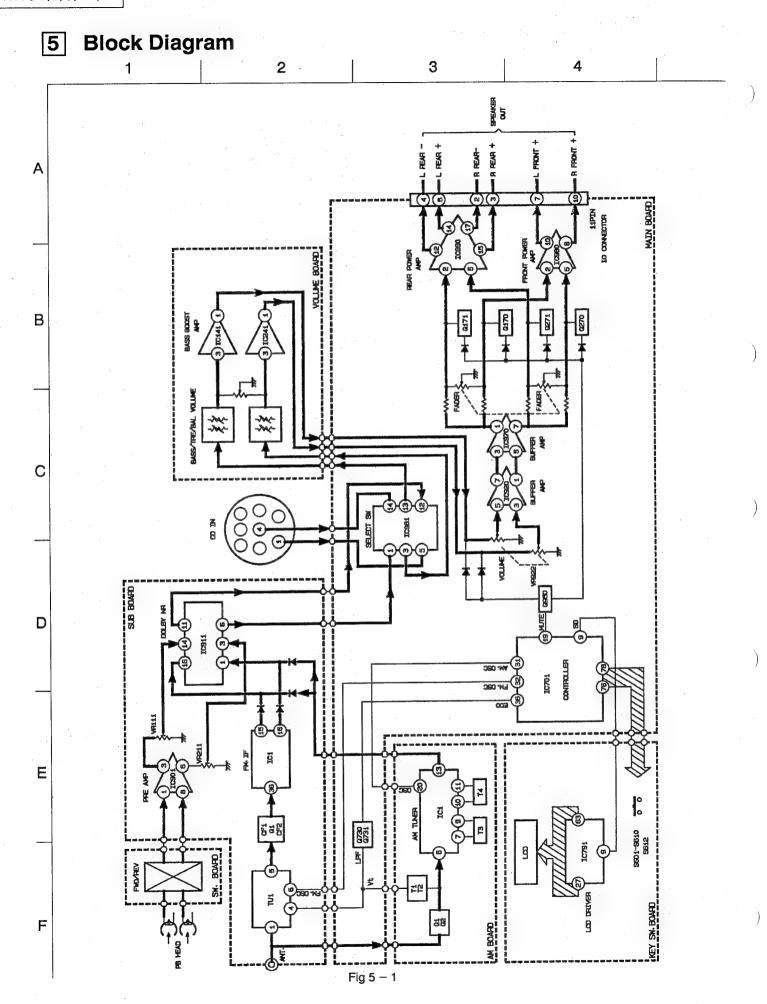
Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
4.Maximum output power confirmation	BASS/TRE:center	5.3V(7W) 3. Confirm that consumption current at above condition to be less than 5A. 4. Sound leakage should not occur at volume	Output level:more than 20W(9V) and 7W(5.3V) Consumption current :less than 5A	
5. DOLBY NR level adj.	Test tape:VTT724 (1kHz) Test point : TP911	<ol> <li>Playback the test tape VTT724,Adjust VR111/VT211 so that the output level at terminal TP911 is 318mV.</li> <li>Playback the non – signal recorded portion and turn on and off the DOLBY switch repeatedly while making sure that level difference at TP911 is 8.5dB more.</li> </ol>	DOLBY B 318mV	Lch :VR111 Rch :VR211

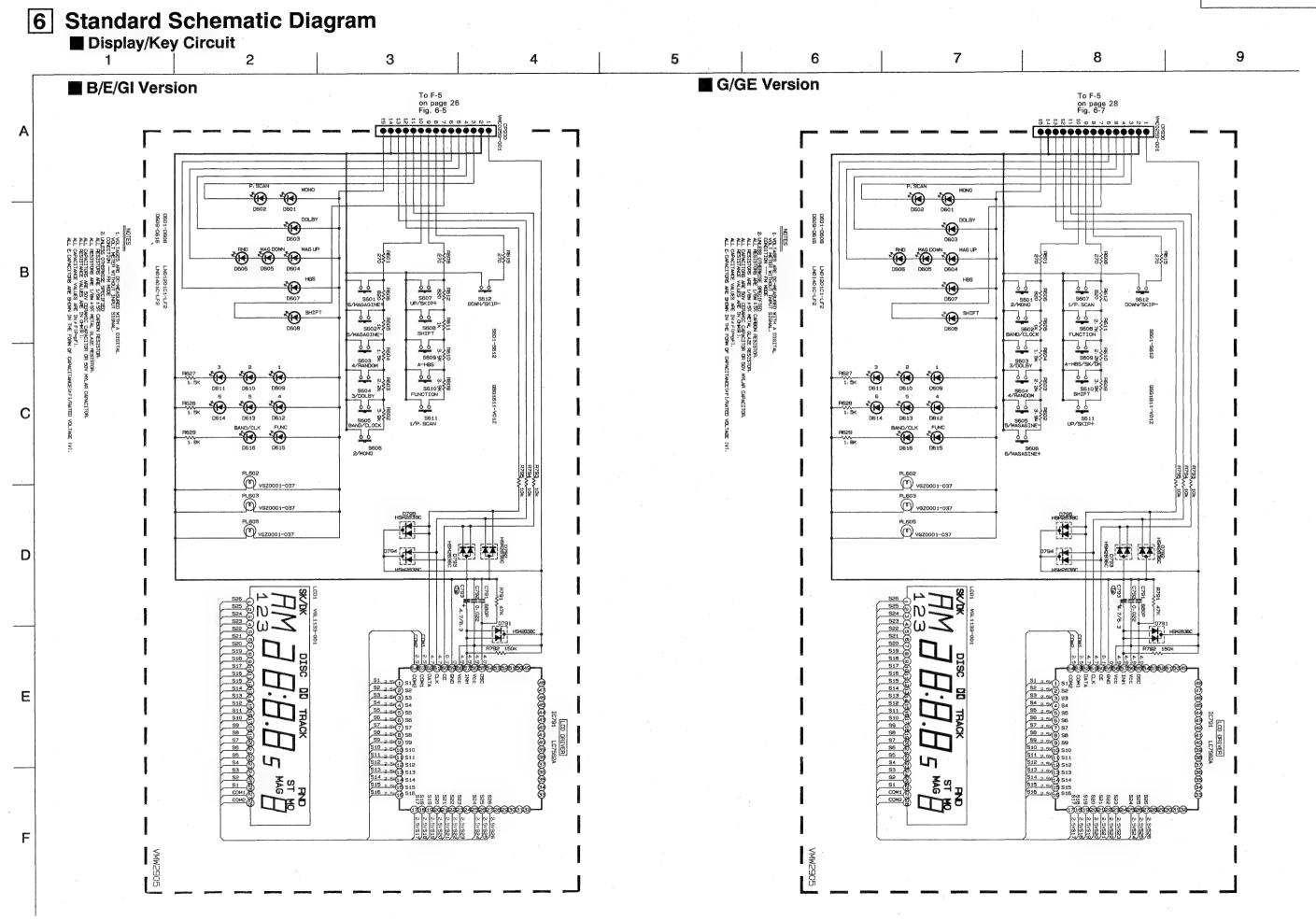
### ■ Tuner section adjustment

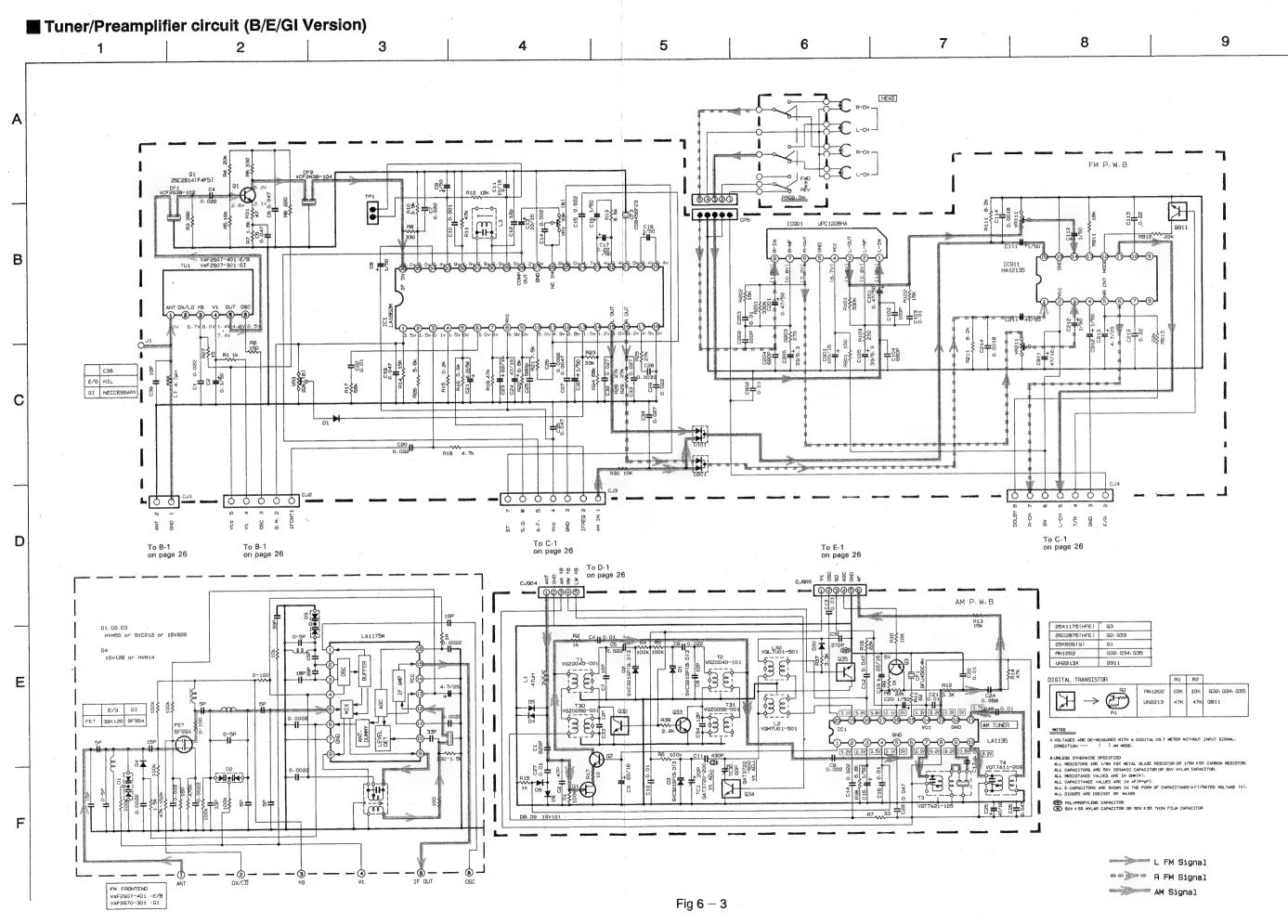
Item	Conditions	Adjustment and Confirmation methods	S.Values	Adjust
1.Radio/Tape level difference	AM 1000 kHz, 1kHz, 30% modulation, 74dB $\mu$	Against VTT724, the output difference level to be within $-$ 7 to $\pm$ 3 dB	within - 7 to ± 3 dB	
2.FM 0V adjustment	Test point: TP1 FM 97.9MHz, 66 dB non modulation	Adjust L50 so that the TP1 DC voltage level become 0 V when 97.9 MHz is indicated.	0 ± 10mV	L50
3.Clock frequency adjustment	Test point: TP4 AM 1710 kHz F Counter	When indication AM 1710 kHz, adjust TC701 so that the TP4 reading becomes 2,160 ± 0.005 kHz.  Note: 1.Clock adjustment to be done after aligning tuner (To get higher accuracy).  2.High impedance can to be use.	2,160 ± 0.005 kHz	TC701
4.FM seek stop adjustment	Test point:TP701 FM97.9mHz,30dB $\mu$ (non – modulated)	Adust VR740 so that SD is set exactly from 0V to 5V with the SSG 97.9mHz 30dB $\mu$ V.	0V to 5V	VR740
5.Separation adjustment	TP:AFout FM97.9MHz,66dB $\mu$ (1kHz,67.5kHz Dev.) 7.5kHzDev.)	<ol> <li>With signal of 97.9MHz,66dB μ supplied from the signal generator to L or R channel.</li> <li>Adjust VR1 to minimize leak of a channel's output to other channel.</li> </ol>	minimum	VR1
6.BLEND adjustment	TP:AFout FM97.9MHz,52dB $\mu$ (1kHz,67.5kHz Dev, 7.5kHz Dev)	1. With signal of 97.9MHz,66dB $\mu$ supplied from the signal generator to L or R channel. 2.Adjust VR3 so that speaker output level of the other channel becomes 20dB and signal levels of the two channels are balanced.	20dB	VR3
7.SK Filter adjustment	FM:97.9MHz SK signal modulation 66dB μ V (set modulation to 10% less)	While receiving SK signal, adjust VR301 so that the TP301 output level become maximum.  OSC SG KS-RT70 E.METER  F.COUNTER OCC.  57kHz	Maximum	VR301W

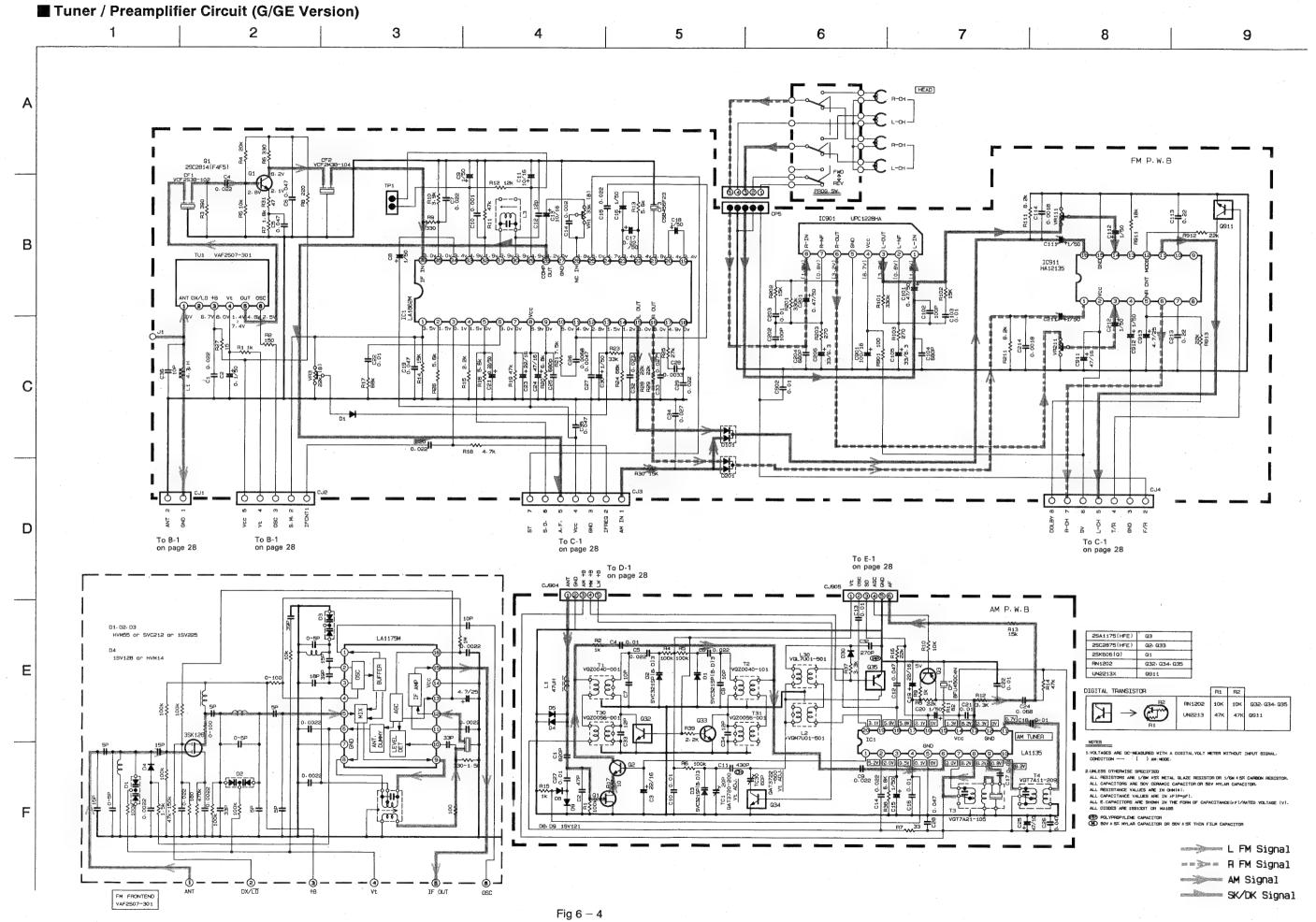
# 4 Wiring Connections

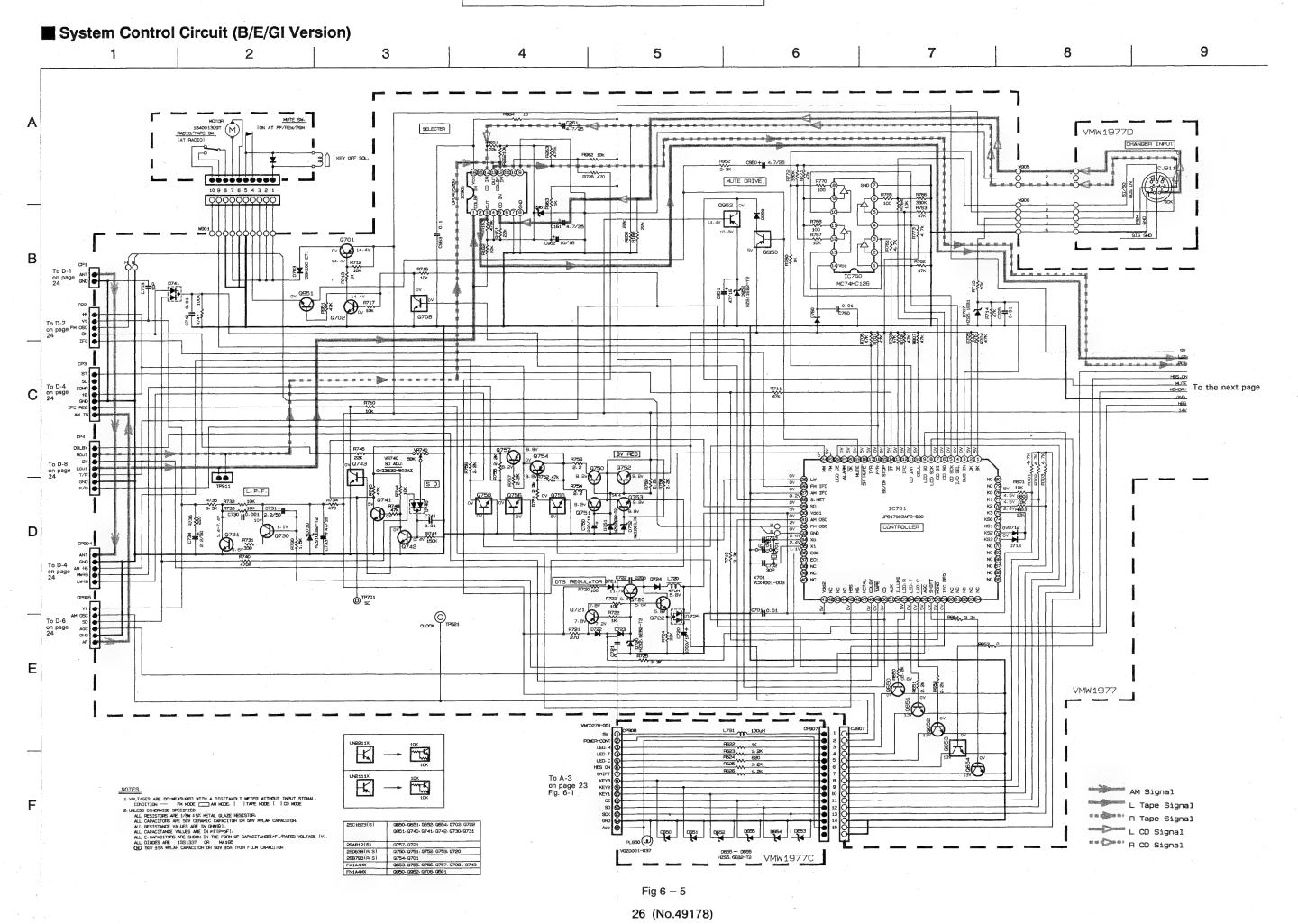












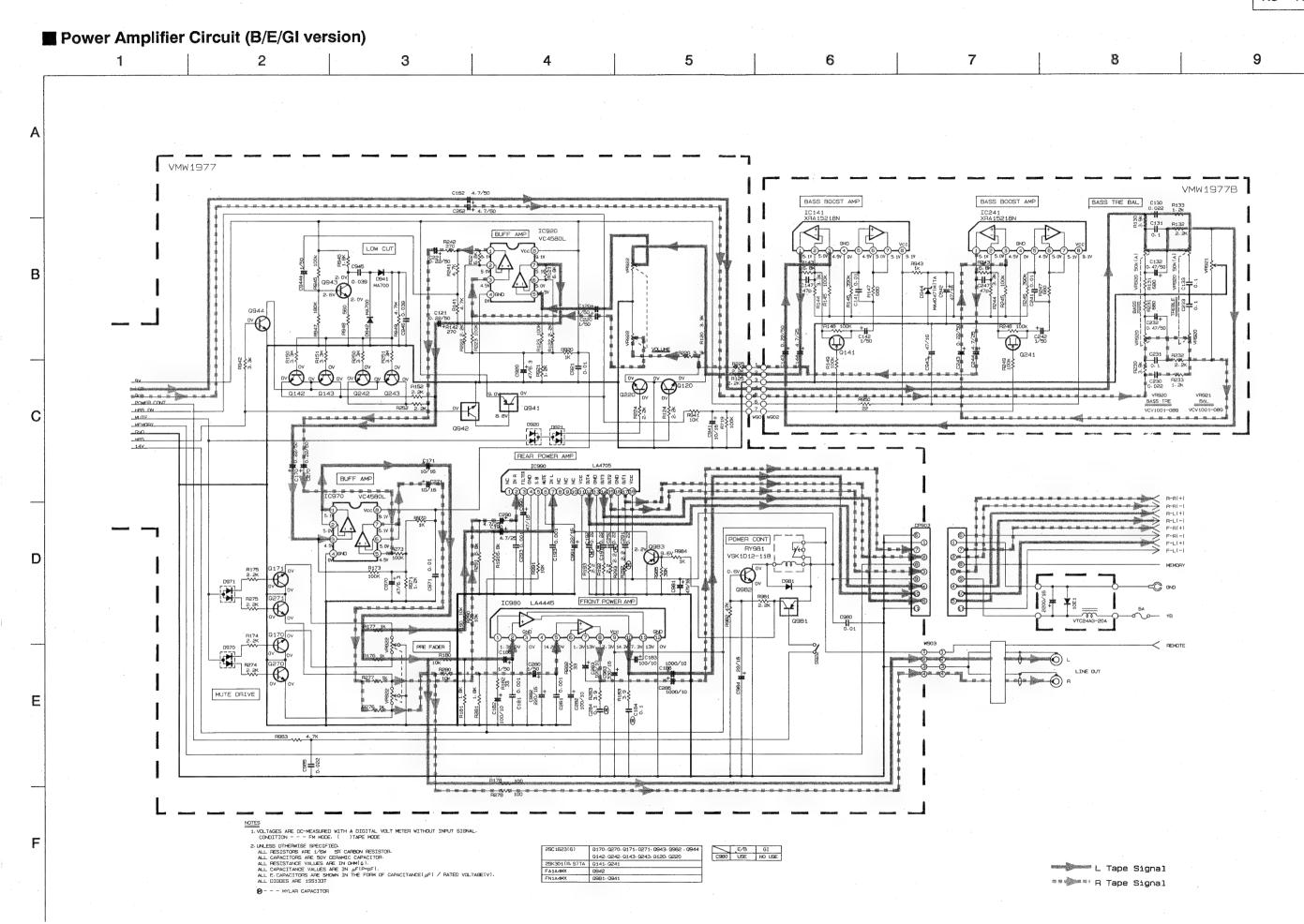
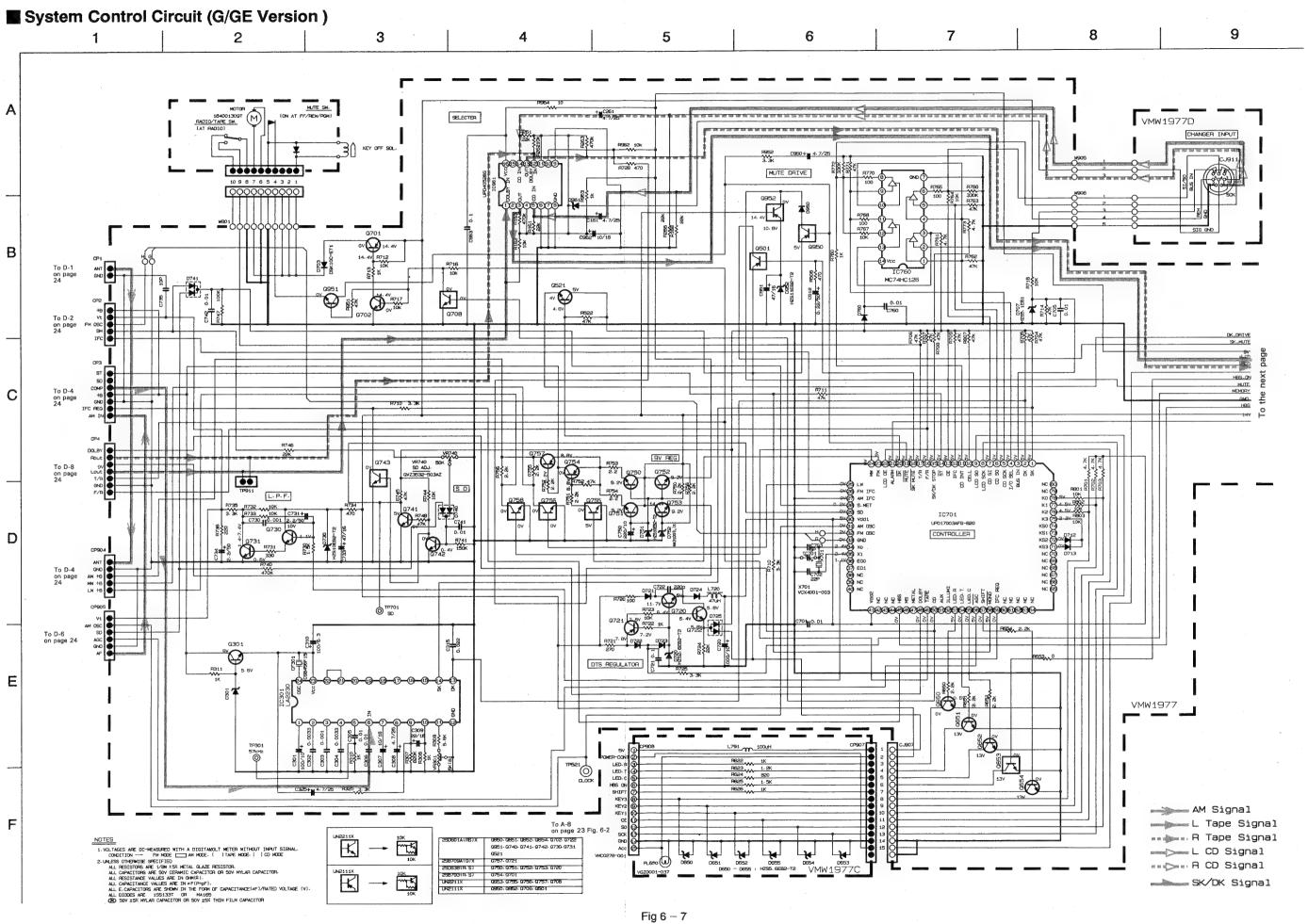
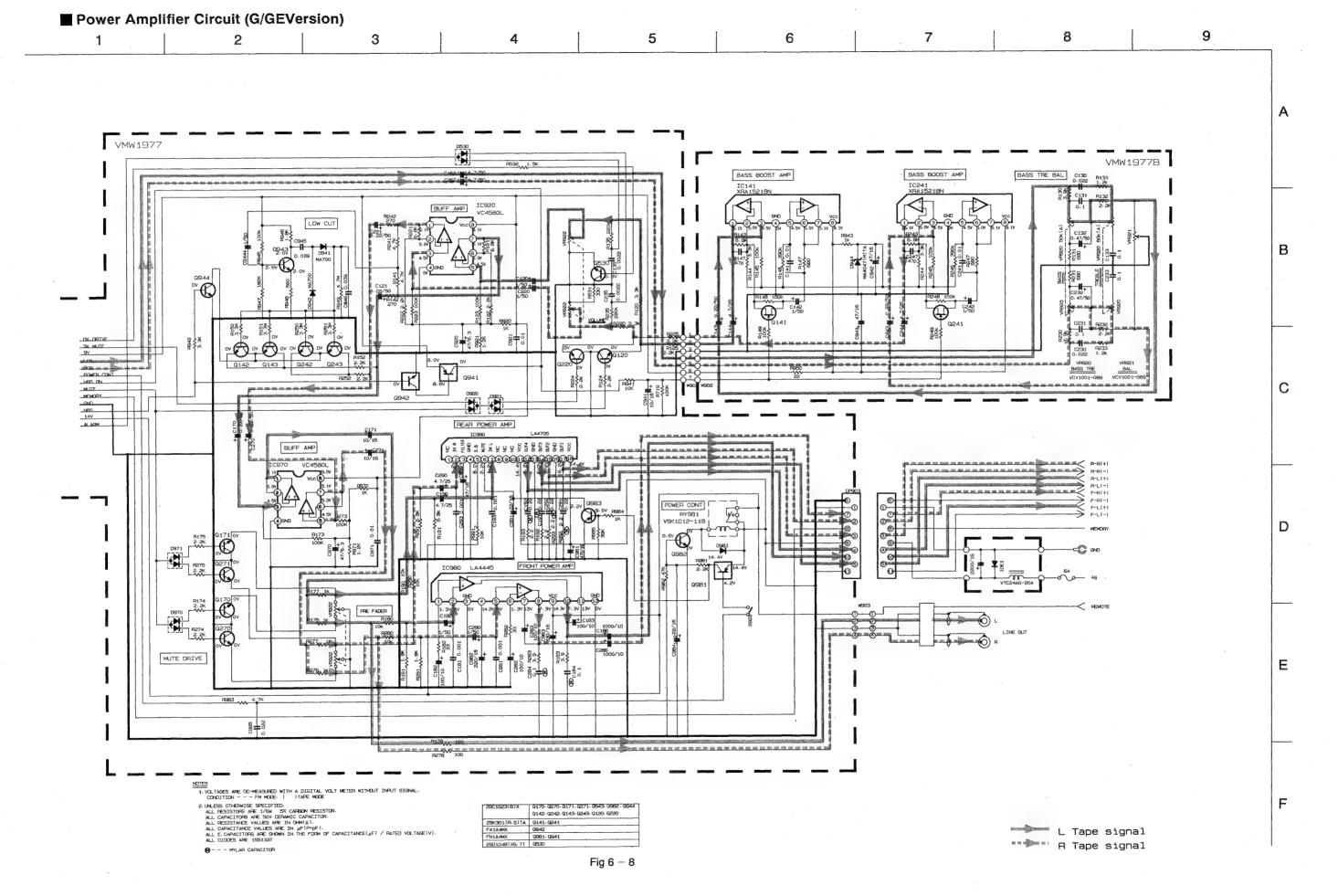
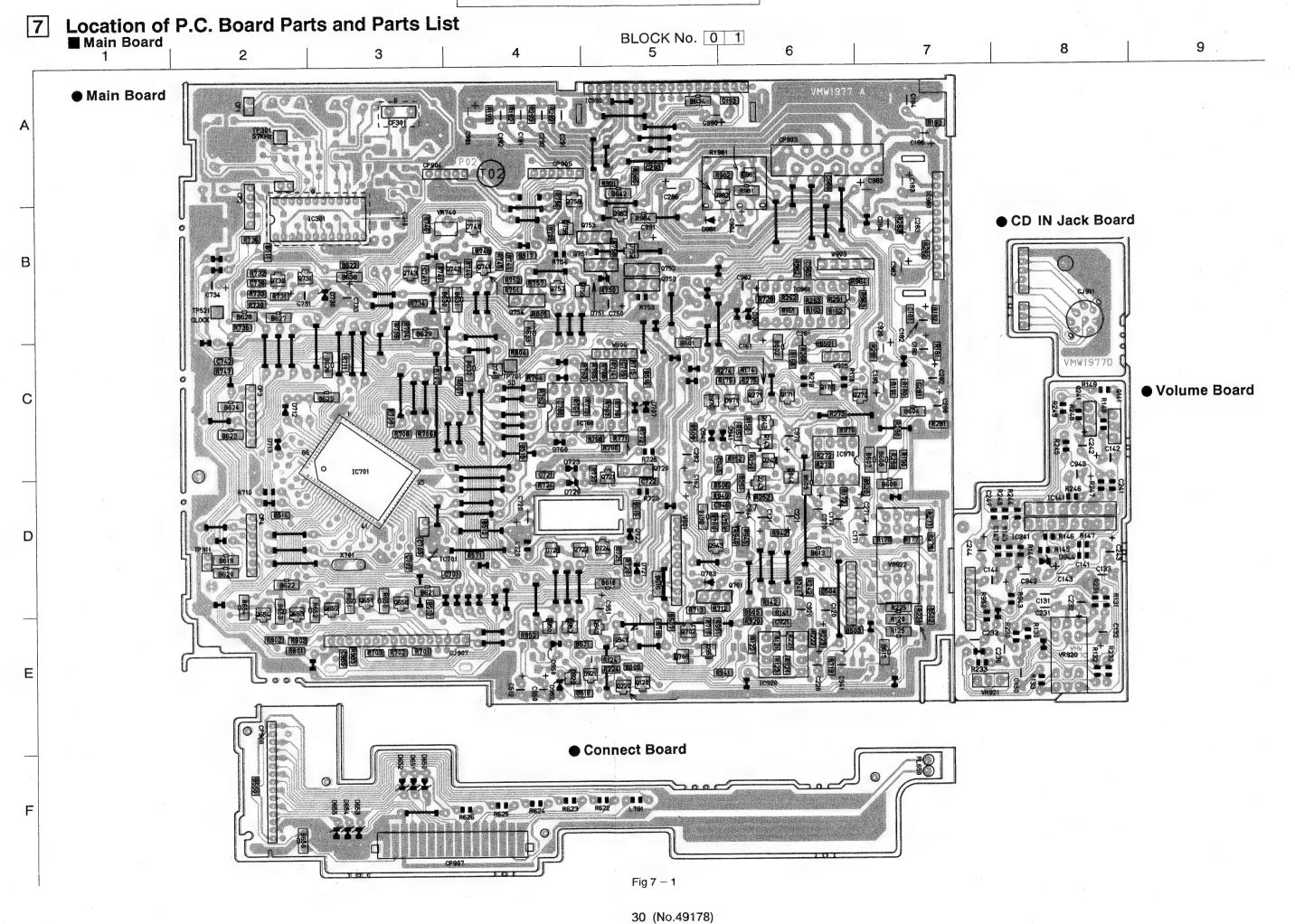


Fig 6 - 6



28 (No.49178)





### Main board parts list

	SUFFIX													-																																	
011 [ [ ]	SUF	6,65	67.GE	6,6E	6,6E	GAGE	6.6E	GAGE	G. GE	G / GE	G.GE	GAGE												-																			6,65	;			
BLOCK NO. 011	REMARKS	1000PF 10% 50V	10%	.010MF 10X 50V	.010MF 10% 50V	10MF 20% 16V	4.7MF 20% 25V	22MF 20% 16V	100MF 20% 6.3V	.022MF 10% 50V	4.7MF 20% 25V	.22MF 20% 50V	.010MF 10% 50V	22PF +50:-10% 1	5.0PF +50:-10%	.010MF 10% 50V	100 ava 200	220PF 5% 50V	1000PF 10% 50V	2.2MF 20% 50V	47MF 20% 16V	2.2MF 20% 50V	010MF 10% 50V	.010MF 10% 50V	220MF 20% 10V	.010MF 10% 50V	4/MF 20% 0.3V	10MF 20% 16V	47MF 20% 16V	4/MF 20% 16V	.039MF 10% 50V	.039MF 10% 50V	4.7MF 20% 25V	10MF 20% 16V	.10MF 10% 25V		. CIOMF 10% 50V	220MF 20% 16V	20%	22MF 20% 16V	IF 10	22MF 20% 16V	2				_
	PARTS NAME	C CAPACITOR	C CAPACITOR	C CAPACITOR	C CAPACITOR	E CAPACITOR	E CAPACITOR	E CAPACITOR	E CAPACITOR			Ł	C CAPACITOR	C CAPACITOR		- 1	CAPACITOR			E CAPACITOR		E CAPACITOR			J		C CAPACITOR		1	E CAPACITOR			E CAPACITOR			- 1	C CAPACILOR			E CAPACITOR		E CAPACITOR	ш	CONNECTOR	MINI DIN JACK	CONNECTOR	A THE PATOR
	PARTS NO.	NCB21HK-102AY	NCB21HK-332AY	NCB21HK-103AY	NCB21HK-103AY	QER41CM-106M	GER41EM-475VM	QER41CM-226VM	QERFOJM-107ZN	NCB21HK-223AY	QER41EM-475VM	_	NCB21HK-103AY	NCT21CH-220AY			VCE0040-001	NCS21H.I-221AV			QER41CM-476M	GEK41HM-225		_		_	NCB21HK-103AY	_	-	GEK41CM-476			QER41EM-475VM				ACBZINK-105AT			QER41CM-226VM		GERATCH-226VM			1.	VMC0135-002	STATE AND
	A REF.	C 303		C 305	C 306	C 307		C 309	C 310		C 325	C 512	C 701	C 702	C 703	ין־י	02/3			C 731		7 7 7	2 7 2				C 921	C 941	l l	2 44 5		0 946	0 6 2	C 962		- 1	1 08 7			C 984		2 69 7		C1907	CJ911	- C-	٧ - ١
	SUFFIX	G.6E.B.E.61							G, GE																						G, 6E																
BLOCK NO. DALLIII	REMARKS	5% 1/10W	Š	20%	-022MF 20% 25V	.10MF 20% 25V	.47MF 20% 50V	_10MF 20% 25V		.010MF 20% 16V	20% 50	.22MF 20% 50V	4.7MF 20% 25V	47PF 5% 50V	20% 2	104 FOX 50V	20% 16			20% 1	100MF 20% 10V		4.7MF 20% 25V	22MF 5% 50	iO	1000PF 10% 50V	20% 5	20%	.10MF 20% 25V	20% 2	36	20%	1.0MF 20% 50V	4.7MF 20% 25V	X 50V	4 - 7MF 20% 25V	20% 5	20% 1	5	F 10%	100MF 20% 10V	5% 50	7	4.7MF 20% 25V	1	00 20	AUS
irts list	PARTS NAME	MG RESISTOR			C CAPACITOR	C CAPACITOR	E CAPACITOR		C.CAPACITOR	C CAPACITOR	E CAPACITOR	1.	E CAPACITOR		E CAPACITOR		F CAPACITOR				E CAPACITOR	۳ ر	E.CAPACITOR	14.		C CAPACITUR	E CAPACITOR	C CAPACITOR	C CAPACITOR				E CAPACITOR	E CAPACITOR		E CAPACITOR		E CAPACITOR		- 1	E CAPACITOR			E.CAPACITOR		LT CAPACITOR	
rd pa	S NO.	NRSAOZJ-ORONY	GER41HM-105VM	GER41HM-224VS	EM-223V	QCC11EM-104V	DEK41HM-474	QCC11EM-104V	QCY41HK-222	QCVB1CM-103Y	HM-105	QEK41HM-224	QEK41EM-475	HJ-470	GER41EM-475VM	GERFINA-4/52M	ではなり ここに こんないの ひにひん かいひん かいしん ひましょう ひましょう 大手	GER41HM-105VM	NCB21HK-102AY	GEKF1AM-107ZN	GETCLAM-1072N	KTV4173-1304	1EM-475	QFV41HJ-224	QFV41HJ-224	NCB21HK-102AY	GER41HM-224VS	QCC11EM-223V	GCC11EM-104V	GECTIEM-104V	NCB21HK-222AY	QCVB1CM-103Y	EK41#M-105	GEK41EM-475	QCS11HJ-470	GER41EM-475VM	GERGIHM-224VS	QER41CM-106M	QER41HM-105VM	NCB21HK-102AY	GEKF1AM-1072N	GFV41HJ-104	QETC1AM-108ZN	QETC1EM-475	QFV41HJ-224	477-CH147-57	CV - 1   V - 1   V - 2
Main board parts list	PARTS	NRSAOZ	GER41	QER41	QCC11EM-22	0CC11	QEK41	QCC11	QCY41	QCVB1	QEK41HM-10	QEK41	QEK41	0CS11	GER41	SER!	4 7 0 0 0	QER4	NCB2	GEKF	QETC	4 6 7 7	QETC	QFV4	QFV4	2002	Q ERA	acc1	QCC1	SCC 1	NCB2	QCVB	O OFFIX	QE X	QCS1	QER 4	QER4	QER4	QER4	NCB2	282 GEKF		QETC	290 GETC	QFV4	292 GFV4	

SUFFIX											G.GE	G/GE	6,6E	G.GE				-									-																							
REMARKS																																															3.3K 5% 1/8W	24	N :	100K 5% 1/10W
PARTS NAME	TOAMCTCTOD	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	FET	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TOAKSTSTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISTOR	TRANSISION	TRANSISTOR	TRANSISTOR	22	RESISTOR	RESISTOR	MG RESISTOR
PARTS NO.	1	2 25C1623(6)		-	2SC1623(6)	1 25K301(P.0)	2 25C1623(6)	5 25C1623(6)	_		┺-	FN1A4MX	1 2501623(6)	2SD1048X7T-HL		-				1 258793					t		_		COCTOCO (0)		_				<u></u>			S FA1A4M			4 2SC1623(6)				1 FRIA4MA					NKSAUZJ-104NY
A REF.	Ł	0 143			Q 220	0 241	0 242	0 243			ſ	a 501	Q 521	Q 530	Q 650					0 701					]				A 74 C	ł					}			Q 758	- )				. !	256 0	0 082			ı		K 123
SUFFIX						6,6E	6,6E																																		6,6E									
REMARKS																																																		
PARTS NAME	EEEN TUBIL CAD	ECTOR	CONNECTOR	CONNECTOR	CONNECTOR	ZENER DIODE	DIODE	ZENER DIODE	ZENER DIODE		ZENER DIODE		ZENER DIODE		ZENER DIODE			Z DIODE		SI DIODE	SIDIODE	DIODE		Z DIODE	DIODE		ARNEK DIODE	A DIODE	DIODE	DIODE	ZENER DIODE		ZENER DIODE	SI DIODE	SI DIODE	ZENER DIODE	DIODE	01005	IC	21	J.	J.	7 7		9	ıc	IC	INDUCTOR	LAMP	TRANSISTOR
PARTS NO.	V670007-030	VMC0135-005	VMC0135-006	VMC0232-016	VMC0278-001	MA3056	HSM2836C	HZS5.6EB2	HZS5.6EB2	HZS5.6EB2	H2S5.6EB2	HZS5.6EB2	HZS5.6EB2	DSK10C-E	HZS5.1EB1	MA165	MA165	HZS6.2EB3	MA165	MA165	MA165	HSM2836C	HSM2836C			HV32858C	79301074	MAS100(m)	HSM2838C	HSM2836C	MA700	MA700		. 1	HZS11EB2	HZS5.1EB2	10717000 107170000	DSK100-F	1	XRA15218N	LA2230	UPD17005GF-664	VELSEON	1804505PC	VC4580D		. 1	VQP025K-470Y	VG70001~037	2501623(6)
REF.	5000J	CP904	CP905	CP907	CP908			0 650	D 651			0 654				D 712				ſ	0 723		0 725		- 1		10/0	2 4 6					776 0			0 961			10141	10241	10301	10701	10000	10061	10970	10980	10990		P1 650	Q 120

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SUFFIX		:											-		-					6, GE	3 GE	G . GE	GAGE	מי פי	9 6 6	1 L	G. GE	GAGE	G,GE																						
REMARKS	2%	3.3M 5% 1/10W		10K 5% 1/10W	470K 5% 1/10W	100 54 1/10#	4 34	24	1.0K 5% 1/10W		94	10K 5% 1/10W	1.8K 5% 1/10W	33 5% 1/10%	3.9 5% 1/10W	10K 5% 1/10W	6.8K 5% 1/10W	2	2.2 5% 1/10W	W 3	K i	V 1	X 3	4 %	3.37.34.1/10# 7.70.5% 1/10#		, N	X 50 56	1.0K 5% 1/10W	N:	€<	7	V 1	N 2	70 70 70 70 70 70 70 70 70 70 70 70 70 7	2 X X	1/84	2.2K 5% 1/8¥		24	~/1	36	47K 5% 1/10W	47K 5% 1/10W	47K 5% 1/10W	34	2%	, I.	, 7. 5 %	1 15	, , , ,
PARTS NAME	RESISTOR	MG RESISTOR	RESISTOR	RESISTOR	MG RESISTOR	DECTCION	RESISTOR	RESISTOR		STOR	BON RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISION	RESISTOR	RESISTOR	1		RESISTOR DECTOTOR	RESTSTOR	BON RESISTOR	-	MG RESISTOR	RESISTOR	RESISTOR	RESISTOR	RESISTOR	RBON RESISTOR		PENTOTO PE	1.	_	MG RESISTOR	RESISTOR		RESISTOR	MG RESISTOR	MG RESISTOR		RESISTOR	RESISTOR	STOR		RESISTOR	201010101010101010101010101010101010101
PARTS NO.	NRSA02J-335NY	NRSA02J-335NY	NRSA02J-223NY		NRSA02J-474NY			NRSA02J-222NY	NRSA02J-102NY	NRSA02J-102NY	QRD161J-101	NRSA02J-103NY	NRSA02J-182NY			NRSA02J-103NY	NRSA02J-682NY							NKSRUZJ-102NT					NRSA02J-102NY			_L			NKSIGIJ-222NI				NRSA02J-472NY			· .	NRSA02J-473NY	NRSA02J-473NY	NRSA02J-473NY					_	
A REF.	t	R 251			R 263	K 208			1 .	R 277	R 278	R 280	R 281	R 282				- ŧ	R 293				- 1	K 311		200		R 532	R 571			- 1			R 050	K 051	1				R 703	R 704	R 705	R 706		R 708	ı.		R 711		
SUFFIX				G,6E																																						G,GE									
'marrie	5.9K 5% 1/6W	580 5% 1/6W	2 2	5x 1/10W	20 5	#017E %C 075	2 2	25	2%	us	100K 5X 1/6W		3.3M 5X 1/10W	5x 1/1	5% 1/	5% 1/10	57 1/10		7 1/10	24 1/1	54.1/1	74 1/1	1 OK 5% 1/10W	3	6 H	58 1/1	33 5% 1/10W		5x 1/10	< 5x 1/1	5% 1/10	7 1/1	5.5K 5K 1/10W	71 45	52 111	5% 1/1	5% 1/8	5%	v	24	5x 1/6W	5% 1/10W	3	*	6.8K 5% 1/6W	5% 1/6	100K 5% 1/6W	5% 1/	36	23	57 11
SUFF	RESISTOR 3.9K 5% 1/6		STOR 1.2K 5%	G RESISTOR   220K 5% 1/10W	1/1	RESIDIUK 270 34	RESISTOR 3.3K 52	RESISTOR 100K 5%	RESISTOR 390K	RESISTOR 680 5	RESISTOR 100K 5%	RBON RESISTOR 100K 5%	RESISTOR 3.3M 5x 1/	RESISTOR 3.3M 5% 1/	RESISTOR 2.2K 5% 1/1	RESISTOR 22K 5% 1/1	STOR 10K 5% 1/10	RESISION 470K 5X 17	ESISIOR   22K 5% 1/10	KESISIUK 100K SK 1/1	RESISION 2.2K 5A. 1/1	RESISTOR C.CK NA 1/1	DECTOTOD 4 OF S4 17	APPON PECTOTOP 100 SW 176	PENTATOR TOTAL TOTAL TABLE	RESISTOR 1.8K 5% 1/	RESISTOR 33 5% 1/10	RESISTOR 3.9 5% 1/10	RESISTOR   10K 5% 1/10	RESISTOR 6.8K 5% 1/1	RESISTOR 2.2 5% 1/10	RESISION 2.2 5% 1/10	2X 1/	DECICION DECICION DE LA	RESTRICE 100K 52 1/1	RESISTOR 2.2K 5% 1/	RESISTOR 2.2K 5% 1/8	RESISTOR 3.9K 5%	RESISTOR 680 5	ARBON RESISTOR 2.2K 5%	RBON RESISTOR 1.2K 5X 1/6W	RESISTOR 220K 5% 1/10W	RESISTOR 4.7K 5% 1/	ISTOR   270 5% 1/10	RESISTOR 6.8K 5% 1/6	RESISTOR 3.3K 5%	RESISTOR 100K 5% 1/	RESISTOR 390K 5%	RESISTOR 680 5%	RESISTOR 100K 5% 1/	RESISTOR 100K ST 17
ARTS NAME REMARKS SUFFI	QR0161J-392 CARBON RESISTOR 3.9K 5% 1/6	CARBON RESISTOR 680 5%	QRD161J-122 CRESISTOR 1.2K 5%	NRSAO2J-224NY MG RESISTOR 220K 5% 1/10W	NRSAO2J-472NY MG RESISTOR 4.7K 5% 1/1	TABBON DECTATOR 4 OF C	GRO1671-332 CARBON RESISTOR 3.3K 5%	QRD1613-104   CARBON RESISTOR 100K 5%	CARBON RESISTOR 390K	CARBON RESISTOR 680 5	CARBON RESISTOR 100K 5%	QRD161J-104   CARBON RESISTOR 100K 5%	NRSA02J-335NY MG RESISTOR 3.3M 5% 1/1	NRSAO2J-335NY MG RESISTOR 3.3M 5% 1/	NRSAO2J-222NY MG RESISTOR 2.2K 5% 1/1	MRSAOZJ-ZZ3NY MG RESISTOR ZZK 5% 1/1	RESAUCE TOWN MG RESISTOR TOWN SX 1/10	MRSAOZJ-474NY MG RESISIOR 470K 5% 17	MRSAO2J-223NY MG RESISTOR 22K 5X 1/10	NESSON DOUGH TO STRUCTURE TOOK ON THE	RRSAUZJ-ZZZNY MG KESISIUK Z.ZK 5% 1/1	NECKOLOCIONI PAG KROLOCOK A.CK NA 1/1	DECTOTOD 4 OF S4 17	T AC ADEL OF CALCACA DE LA	######################################	NRSAD21-182NY MG RESISTOR 1.8K 5X 1/	NRSA02J-330NY MG RESISTOR 33 5% 1/10	NRSA02J-3R9NY MF RESISTOR 3.9 5% 1/10	NRSA02J-103NY MG RESISTOR 10K 5% 1/10	NRSA02J-682NY MG RESISTOR 6.8K 5X 1/1	NRSAO2J-ZRZNYM MG RESISTOR 2.2 5% 1/10	NECESCALLERENTS FOR KENTSION A 1/10	DESTOTOR A SK SK 11	ANCACAL DODGEN THE REGISTER OF ON ON THE PROTECTION OF CR 12	NESACOLLICAN MG PERINTOR 100K 52 1/1	NRSAO21-222NY MG RESISTOR 2.2K 5% 1/3	NRS181J-222NY MG RESISTOR 2.2K 5% 1/8	GRD161J-392 CARBON RESISTOR 3.9K 5%	GRD161J-681 CARBON RESISTOR 680 5	GRD161J-222 CARBON RESISTOR 2.2K 5%	QR0161J-122 CARBON RESISTOR 1.2K 5X 1/6W	NRSA02J-224NY MG RESISTOR 220K 5% 1/10W	NRSA02J-472NY MG RESISTOR 4.7K 5% 11	NRSA02J-271NY MG RESISTOR 270 5% 1/10	QRD1671-682   CARBON RESISTOR 6.8K 5% 170	QRD167J-332 CARBON RESISTOR 3.3K 5%	QR0161J-104 CARBON RESISTOR 100K 5% 11/	QR0161J-394 CARBON RESISTOR 390K 5%	QR0161J-681   CARBON RESISTOR 680 5%	QRD161J-104   CARBON RESISTOR 100K 5% 1/	AL YOU STATE OF THE STATE OF TH

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	SUFFIX					ш		G, GE, B, E, G1			,	
BLOCK NO. 01	REMARKS	3.3K 5X 1/10W 1.0K 5X 1/6W 100K 5X 1/10W 1.8K 5X 1/10W 180K 5Y 1/10W	560 5% 1/10W 4.7M 5% 1/10W 4.7E 5% 1/10W 27K 5% 1/10W	10K SX 1/10W 10K SX 1/10W 1.0K SX 1/10W 1.0K SX 1/10W 1.0K SX 1/10W 1.0K SX 1/10W	******			5x 1/8W				
	PARTS NAME	MG RESISTOR CARBON RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	RESISTOR RESISTOR RBON RESISTOR RESISTOR		j.	1 202	V RESISTOR V RESISTOR V RESISTOR V RESISTOR PIN CORD ASS'Y	CRYSTAL MG RESISTOR				
	PARTS NO.	NRSA02J-332NY QRD161J-102 NRSA02J-104NY NRSA02J-182NY			NRS1813-222NY NRS1813-222NY NRSA023-473NY NRS1813-102NY NRS1813-102NY			1				
	A REF.	R 942 R 943 R 945	1			> O a a	VR740 VR920 VR921 VR922	X 701 305 1				
	SUFFIX											
BLOCK NO. OT	REMARKS	47K 5X 1/10W 10K 5X 1/10W 10K 5X 1/10W 10K 5X 1/10W 10K 5X 1/10W	100 5% 270 5% 1.0K 5%	3.3K 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	(1 % (1) % (1)	150K 5% 1/10W 10K 5% 1/10W 47K 5% 1/10W 22K 5% 1/10W 100K 5% 1/10W	* * * * * * * * * * * * * * * * * * *	2.2 5% 1/6W 2.2% 5% 1/10W 2.2% 5% 1/10W 2.2% 5% 1/10W	5x 1/1 5x 1/10 5x 1/10 5x 1/10 5x 1/10	100 5% 1/10W 330K 5% 1/10W 10K 5% 1/10W 100 5% 1/10W 100 5% 1/10W	N 20 20 20 20	10K 5% 1/10W 47K 5% 1/10W 1.0K 5% 1/10W 1.2K 5% 1/10W 10K 5% 1/10W
	PARTS NAME	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	1 00	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR				CARBON RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	* * * * * *		2222	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR
	PARTS NO.	NRSA02J-473NY NRSA02J-103NY NRSA02J-103NY NRSA02J-103NY NRSA02J-104NY				L					1	NRSAQ2J-103NY NRSAQ2J-473NY NRSAQ2J-102NY NRSAQ2J-122NY NRSAQ2J-103NY
	A REF.	R 714 R 715 R 716 R 716 R 717	1		1	R 741 R 744 R 745 R 745 R 746	1	1	1	1	j	R 803 R 807 R 920 R 921 R 941

### ■ AM Board and Parts List

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			C 2 - - 	5 +/		C C 22	9 1		,0 		C   9	1						SUFFIX															
		PIJ/				6	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )				GF 1220						BLOCK NO. 02	REMARKS	1/10W	1/10W	1/10W	1/10W	1/10W	1/10%	1/10W	1/10W	1/10W	1/104					
	00 5								( <del>)</del>	0 2			-				В		100K 5%	2 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2	5%	м 🗀	₩ "	1 39	1.0K 5%	2 7 1	3.3K 5%						
	DA Lah		R C 1 C						11630 83%	30								PARTS NAME	MG RESISTOR MG RESISTOR		RE	MG RESISTOR MG RESISTOR	MG RESISTOR	RESI	MG RESISTOR	RESI	MG RESISTOR		AM RF		IFT	LW RF COIL	T.CAPACITOR T CAPACITOR
	A Comment of the Comm	12° C33			0.21 1.61 1.61 1.62 1.62 1.63 1.63 1.63 1.63 1.63 1.63 1.63 1.63			60	] [] #(3)		37 Qa							PARTS NO.	NRSA02J-104NY NRSA02J-104NY		NRSA02J-102NY	NRSA02J-103NY NRSA02J-820NY	NRSA02J-332NY	NRSAUCJ-155NY NRSA02J-473NY	NRSA02J-102NY NRSA02J-223NY	NRSA02J-100NY	NRSA02J-332NY NRSA02J-682NY	NRSA02J-222NY	V@Z0040-001	VQT7A21-105	V@T7411-209	V@Z0056-001	QAT3720-200M QAT3720-600M
		Section 11 Section 2 Secti			(éű			2000 (Alamana)	/MW	282			F	ig.	7-2	2		A REF.	5 2	8 2 S	٥	11	12	14	15	17	37	39	ei n	110	4 02	31	TC 1 0A
	SUFFIX																													4			
BLOCK NO. DZ	REMARKS	5% 50V 0% 16V 10% 25	37 J 37	10PF 50V	5 5	50:-10	.04/MF 10% 25V	10%	10%	.010MF 10% 25V	0%	1.0MF 20% 50V	.010MF 10% 25V	.068MF 10% 25V	.047MF 10% 25V	.010MF 10% 25V	+50:-10	12PF 5% 50V															1.0K 5% 1/10W
rts List	PARTS NAME	H	- 1 -	C CAPACITOR	C CAPACITOR	,	C CAPACITOR	C CAPACITOR E CAPACITOR	1	C CAPACITOR	E CAPACITOR	C CAPACITOR		C CAPACITOR	- 1	C CAPACITOR		C CAPACITOR	CERAMIC FILTER	CONNECTOR	VARI.CAP	VARI.CAP SI DIODE	SI DIODE	PIN DIODE	SI DIODE	INDUCTOR	OSC COIL CMW)		TRANSISTOR	TRANSISTOR	TRANSISTOR		MG RESISTOR MG RESISTOR
M Board Parts List						1.	NCB21EK-103AY	NCB21EK-223AY		NCB21EK-103AY		QEK41HM-105		NCB21EK-683AY		NCB21EK-103AY NCB21FK-473AY			BFU450C4N						MA165		Vem7001-501		25C1740S(R.S)		2SC2785 (HFE)		NRSA02J-104NY NRSA02J-102NY
AM	REF.	150	6 5	N &	000	11.	13	14	16	1 8	10	2 5	22	24	26	27	32	34	100	CJ905	2	W 4	N C	0 0	30	-	7 -	1	N	32	33	3.5	e4 (V

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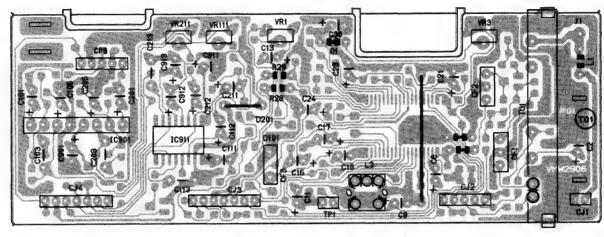


Fig. 7-3

PARTS NO. PARTS NAME		5	Sub Board Pa	Parts List	BLOCK NO. 03	
NRS181J-ORDNY			S	S	REMARK	SUFFIX
2 NRSAO2J-ORDNY MG RESISTOR 1 NCB21HK-223AY C CAPACITOR 2 NCB21HK-223AY C CAPACITOR 5 NCB21EK-473AY C CAPACITOR 6 NCB21EK-473AY C CAPACITOR 7 NCB21HK-223AY C CAPACITOR 8 QEK41HM-105 E CAPACITOR 10 NCB21HK-102AY C CAPACITOR 11 QEK41CM-106 E CAPACITOR 12 QEK41HM-105 E CAPACITOR 13 QEK41HM-105 E CAPACITOR 14 NCB21HK-223AY C CAPACITOR 15 QEK41HM-105 E CAPACITOR 16 QEK41HM-105 E CAPACITOR 17 QEK41HM-224 E CAPACITOR 18 QEK41HM-105 E CAPACITOR 19 NCB21HK-223AY C CAPACITOR 20 NCB21HK-223AY C CAPACITOR 21 QEK41HM-105 E CAPACITOR 22 NCB21HK-323AY C CAPACITOR 23 NCB21HK-323AY C CAPACITOR 24 QEK41HM-105 E CAPACITOR 25 NCB21HK-323AY C CAPACITOR 26 NCB21HK-323AY C CAPACITOR 27 NCB21HK-323AY C CAPACITOR 28 NCB21HK-323AY C CAPACITOR 29 NCB21HK-323AY C CAPACITOR 20 NCB21HK-323AY C CAPACITOR 21 QEK41HM-105 E CAPACITOR 22 NCB21HK-323AY C CAPACITOR 23 NCB21HK-323AY C CAPACITOR 24 QEK41HM-105 E CAPACITOR 25 NCB21HK-323AY C CAPACITOR 26 QEK41HM-105 E CAPACITOR 27 NCB21HK-323AY C CAPACITOR 28 NCB21HK-33AY C CAPACITOR 29 NCB21HK-33AY C CAPACITOR 20 QEK41HM-105 E CAPACITOR 21 QEK41H			NRS181J-ORONY	RESIS	ı	
NCB21HK-223AY   C CAPACITOR			NRSA02J-ORONY	RESIS	MO.	
2 GEK41HM-104 E CAPACITOR  6 NCB21HK-223AY C CAPACITOR  7 NCB21HK-223AY C CAPACITOR  8 QEK41HM-105 E CAPACITOR  10 WCB21HK-223AY C CAPACITOR  10 WCB21HK-102AY C CAPACITOR  11 QEK41HM-105 E CAPACITOR  12 NCT21CH-120AY C CAPACITOR  13 QEK41CM-106 E CAPACITOR  14 NCB21HK-222AY C CAPACITOR  15 QECK41HM-224 E CAPACITOR  16 QEK41HM-224 E CAPACITOR  17 QEK41HM-224 E CAPACITOR  18 QEK41HM-224 E CAPACITOR  19 NCB21HK-622AY C CAPACITOR  20 NCB21HK-622AY C CAPACITOR  21 QEK41HM-105 E CAPACITOR  22 NCB21HK-622AY C CAPACITOR  23 NCB21HK-622AY C CAPACITOR  24 QEK41CM-226 E CAPACITOR  25 NCB21HK-622AY C CAPACITOR  26 NCB21HK-622AY C CAPACITOR  27 NCB21HK-622AY C CAPACITOR  28 NCB21HK-622AY C CAPACITOR  29 NCB21HK-622AY C CAPACITOR  20 NCB21HK-622AY C CAPACITOR  21 QEK41HM-105 E CAPACITOR  22 NCB21HK-623AY C CAPACITOR  23 NCB21HK-623AY C CAPACITOR  24 QEK41HM-105 E CAPACITOR  25 NCB21HK-623AY C CAPACITOR  26 QEK41HM-105 E CAPACITOR  27 NCB21HK-681AY C CAPACITOR  28 NCB21HK-681AY C CAPACITOR  29 QEK41HM-105 E CAPACITOR  20 QEK41HM-105 E CAPACITOR  21 QEK41HM-105 E CAPACITOR  22 NCB21HK-681AY C CAPACITOR  23 GEK1HM-105 E CAPACITOR  24 NCB21HK-182AY C CAPACITOR  25 NCB21HK-182AY C CAPACITOR  26 QEKF1AM-335AN E CAPACITOR  27 QEK71HJ-101AY C CAPACITOR  28 NCB21HK-182AY C CAPACITOR  29 QEK71HJ-103 FILM CAPACITOR  20 QEK71HM-105 E CAPACITOR  21 QEK71HM-105 E CAPACITOR  22 QEK71HJ-103 C CAPACITOR  23 GFV71HJ-103 C CAPACITOR  24 NCB21HK-681AY C CAPACITOR  25 QEK71HM-105 E CAPACITOR  26 GEK71HM-105 E CAPACITOR  27 QEK71HM-105 E CAPACITOR  28 NCB21HK-182AY C CAPACITOR  29 QEK71HJ-101AY C CAPACITOR  20 GEK71HM-105 E CAPACITOR  21 QEK71HM-105 E CAPACITOR  22 GEK71HM-105 E CAPACITOR  23 GFV71HJ-103 C CAPACITOR  24 CAPACITOR  25 QEK71HM-105 E CAPACITOR  26 GEK71HM-105 E CAPACITOR  27 QEAPACITOR  28 GEK71HM-105 E CAPACITOR  29 GEK71HM-105 E CAPACITOR  20 GEK71HM-105 E CAPACITOR  20 GEK71HM-105 E CAPACITOR  21 GEK71HM-105 E CAPACITOR			NCB21HK-223AY		10%	
NCB211K-423AY			QEK41HM-104		20%	
NCB21EK-47347   C. CAPACITOR     NCB21HK-22347   C. CAPACITOR     QEK41HM-105   E. CAPACITOR     QEK41HM-105   E. CAPACITOR     QEK41HM-105   E. CAPACITOR     QEK41HM-105   E. CAPACITOR     QEK41CM-106   E. CAPACITOR     QEK41CM-106   E. CAPACITOR     QEK41CM-106   E. CAPACITOR     QEK41HM-105   E. CAPACITOR     QEK41CM-224   E. CAPACITOR     QEK41CM-226   E. CAPACITOR     QEK41HM-105   E. CAPACITO		- 1	_	- 1	106	
CCBC14K-2234   CCAPACITOR   C					4 6	
REK41HM-105   CAPACITOR     OEEK41HM-105   CAPACITOR     OEEK41HM-105   CAPACITOR     OEEK41HM-105   CAPACITOR     OEEK41HM-106   CAPACITOR     OEEK41HM-106   CAPACITOR     OEEK41HM-106   CAPACITOR     OEEK41HM-105   CAPACITOR     OEEK41HM-105   CAPACITOR     OEEK41HM-105   CAPACITOR     OEEK41HM-105   CAPACITOR     OEEK41HM-224   CAPACITOR     OEEK41HM-224   CAPACITOR     OEEK41HM-226   CAPACITOR     OEEK41HM-226   CAPACITOR     OEEK41HM-105					2 6	
QEKY1HH					OME 20% F	
10 NCB21HK-102AY C CAPACITOR 12 QEK41CM-106 E CAPACITOR 13 QEK41CM-106 E CAPACITOR 14 QEK41CM-106 E CAPACITOR 15 QCY81HK-223AY C CAPACITOR 16 QEK41HM-105 E CAPACITOR 17 QEK41HM-224 E CAPACITOR 18 QEK41HM-105 E CAPACITOR 20 NCB21HK-223AY C CAPACITOR 21 QEK41HM-224 E CAPACITOR 22 NCB21HK-223AY C CAPACITOR 23 QEK41CM-224 E CAPACITOR 24 QEK41CM-224 E CAPACITOR 25 QEK41CM-225 E CAPACITOR 26 QEK41HM-224 E CAPACITOR 27 NCB21HK-323AY C CAPACITOR 28 NCB21HK-323AY C CAPACITOR 28 NCB21HK-323AY C CAPACITOR 29 NCB21HK-323AY C CAPACITOR 20 NCB21HK-323AY C CAPACITOR 21 QEK41HM-105 E CAPACITOR 22 NCB21HK-323AY C CAPACITOR 23 NCB21HK-323AY C CAPACITOR 24 QEK41HM-105 E CAPACITOR 25 NCB21HK-323AY C CAPACITOR 26 QEK41HM-105 C CAPACITOR 27 NCB21HK-681AY C CAPACITOR 28 QEK41HM-105 E CAPACITOR 29 QEK41HM-105 E CAPACITOR 20 QEK71HM-105 E CAPACITOR 20 NCB21HK-681AY C CAPACITOR 20 NCB21HK-681AY C CAPACITOR 20 NCB21HK-681AY C CAPACITOR 21 QEK41HM-105 F CAPACITOR 22 NCB21HK-681AY C CAPACITOR 23 QEK71HM-105 F CAPACITOR 24 NCB21HK-681AY C CAPACITOR 26 QEK71HM-105 F CAPACITOR 27 NCB21HK-681AY C CAPACITOR 28 NCB21HK-681AY C CAPACITOR 29 QEK71HM-105 F CAPACITOR 20 NCB21HK-681AY C CAPACITOR 20 NCB21HK-182AY C CAPACITOR					20%	
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22 NCB21HK-103AY C CAPACITOR 23 4EK41CM-226 E CAPACITOR 25 NCS21HW-226 E CAPACITOR 26 NCB21HK-681AY C CAPACITOR 27 NCB21HK-682AY C CAPACITOR 28 NCB21HK-682AY C CAPACITOR 28 NCB21HK-23AY C CAPACITOR 30 4EK41HM-105 E CAPACITOR 31 NCB21EK-153AY C CAPACITOR 32 NCB21EK-153AY C CAPACITOR 33 NCB21EK-153AY C CAPACITOR 34 NCB21EK-153AY C CAPACITOR 35 NCB21EK-4753AY C CAPACITOR 36 4CS11HJ-100 C CAPACITOR 36 4CS11HJ-101 C CAPACITOR 37 NCB21HK-681AY C CAPACITOR 38 NCB21HK-681AY C CAPACITOR 39 4CV1HJ-224 TF CAPACITOR 31 4 NCB21HK-182AY C CAPACITOR 31 4 NCB21HK-182AY C CAPACITOR 32 4CV1HJ-101 E CAPACITOR 33 4CV1HJ-101 C CAPACITOR 34 NCB21HK-681AY C CAPACITOR 35 4CK1HM-105 E CAPACITOR 36 4CK1HM-105 E CAPACITOR 37 4CK1HM-105 E CAPACITOR 38 4CK1HM-105 E CAPACITOR 39 4CK1HM-105 E CAPACITOR 30 4CK1HM-105 E CAPACITOR 31 4CK4HM-105 E CAPACITOR 31 4CK5HM-107 C		C 21		CAPACITOR	.22MF 20% 50V	
23 QEK41CM - 226 E CAPACITOR   24 QEK41CM - 476 E CAPACITOR   25 NCS21HJ - 6812Y C CAPACITOR   26 NCB21HK - 4724 C CAPACITOR   27 NCB21HK - 4724 C CAPACITOR   28 NCB21HK - 4724 C CAPACITOR   29 NCB21HK - 4724 C CAPACITOR   30 QEK41HM - 105 E CAPACITOR   31 NCB21EK - 1534Y C CAPACITOR   32 NCB21EK - 1534Y C CAPACITOR   33 NCB21EK - 4734Y C CAPACITOR   34 NCB21EK - 4734Y C CAPACITOR   36 QCS11HJ - 1014Y C CAPACITOR   36 QCS11HJ - 1014Y C CAPACITOR   36 QCS11HJ - 1014Y C CAPACITOR   36 QEK1HM - 105 E CAPACITOR   37 QEK41HM - 105 E CAPACITOR   38 QEK1HM - 105 E CAPACITOR   39 QEK41HM - 105 E CAPACITOR   30 QEK41HM - 105 E CAPACITOR   30 QEK41HM - 105 E CAPACITOR   30 QEK41HM - 105 E CAPACITOR   31 QEK41HM - 105 E CAPACITOR   32 QEK71HJ - 1014Y C CAPACITOR   33 QEK71HJ - 1015 E CAPACITOR   34 QCS1HJ - 1015 E CAPACITOR   35 QEKF1HM - 105 E CAPACITOR   36 QEKF1HM - 105 E CAPACITOR   37 QEK41HM - 105 E CAPACITOR   38 QEKF1HM - 105 E CAPACITOR   39 QEKF1HM - 105 E CAPACITOR   30 QEKF1HM - 105 E CAPACITOR   30 QEKF1HM - 105 E CAPACITOR   31 QEKF1HM		C 22		CAPACITOR	_010MF 10% 50V	
24 QEK41CM -476  25 NCS21HJ -681AY C CAPACITOR  26 NCB21HK -472AY C CAPACITOR  27 NCB21HK -472AY C CAPACITOR  28 NCB21HK -233AY C CAPACITOR  29 NCB21HK -253AY C CAPACITOR  29 NCB21EK -153AY C CAPACITOR  30 QEK41HM -105 E CAPACITOR  31 NCB21EK -153AY C CAPACITOR  32 NCB21EK -153AY C CAPACITOR  33 NCB21EK -153AY C CAPACITOR  34 NCB21EK -473AY C CAPACITOR  35 NCB21EK -473AY C CAPACITOR  36 QCS11HJ -101AY C CAPACITOR  36 QCS11HJ -101AY C CAPACITOR  36 QEK41HM -474 E CAPACITOR  37 QEK41HM -105 E CAPACITOR  38 QEY71HJ -101AY C CAPACITOR  38 QEY71HJ -101AY C CAPACITOR  39 QEK41HM -474 E CAPACITOR  30 QEK71HM -105 E CAPACITOR  31 QEK41HM -105 E CAPACITOR  32 QEY71HJ -103 FILM CAPACITOR  33 QEY71HJ -103 FILM CAPACITOR  34 QEK71HM -105 E CAPACITOR  35 QEK71HM -105 E CAPACITOR  36 QEK71HM -105 E CAPACITOR  37 QEK71HM -105 E CAPACITOR  38 QEY71HJ -103 C CAPACITOR  39 QEXTING -101AY C CAPACITOR  30 QEK71HM -105 E CAPACITOR  31 QEK71HM -105 E CAPACITOR  32 QEV71HJ -224 TE CAPACITOR  33 QEV71HJ -224 TE CAPACITOR  34 QEXTING -101AY C CAPACITOR  35 QEV71HJ -102AY C CAPACITOR  36 QEXTING -101AY C CAPACITOR  37 QEV71HJ -102AY C CAPACITOR  38 QEV71HJ -103 C CAPACITOR  39 QEV71HJ -103 C CAPACITOR  40 NCB21HK -105 C CAPACITOR  40 NCB21HK -105 C CAPACITOR  41 QEK71HM -105 C CAPACITOR  41 QEX CAPACITOR  41		C 23	QEK41CM	CAPACITOR	22MF 20% 16V	
25 N CS21HJ -681AY C CAPACITOR 680PF 5X 50 26 N CB21HK -682AY C CAPACITOR 6800PF 10X 28 N CB21HK -223AY C CAPACITOR 5300PF 10X 29 N CB21HK -223AY C CAPACITOR .022MF 10X 30 Q EK41HM -105 E CAPACITOR .015MF 10X 32 N CB21EK -153AY C CAPACITOR .015MF 10X 33 N CB21EK -473AY C CAPACITOR .015MF 10X 35 N CB21EK -473AY C CAPACITOR .015MF 10X 36 Q CS11HJ -100 C CAPACITOR .017MF 10X 36 Q CS11HJ -100 C CAPACITOR .017MF 10X 36 Q CS11HJ -101AY C CAPACITOR .010MF 5X 50 37 Q EKK1HM -105 E CAPACITOR .010MF 5X 50 38 Q CS11HJ -101AY C CAPACITOR .010MF 5X 50 39 Q C S C C C C C C C C C C C C C C C C C	1	C 24		CAPACITOR	47MF 20% 16V	
26 NCB21HK-682AY C CAPACITOR 6800PF 10% 227 NCB21HK-472AY C CAPACITOR 4700PF 10% 259 NCB21HK-472AY C CAPACITOR 4700PF 10% 259 NCB21HK-423AY C CAPACITOR .022MF 10% 350 NCB21EK-153AY C.CAPACITOR .015MF 10% 35 NCB21EK-153AY C.CAPACITOR .015MF 10% 35 NCB21EK-153AY C.CAPACITOR .015MF 10% 356 QCS11HJ-100 C.CAPACITOR .047MF 10% 356 QCS11HJ-101AY C CAPACITOR .047MF 10% 356 QCS11HJ-101AY C CAPACITOR .010MF 5% 50 QCS NCS21HJ-101AY C CAPACITOR .010MF 5% 50 QCS QEKT1HM-105 E CAPACITOR .010MF 5% 50 QCS QEKT1HM-105 E CAPACITOR .010MF 5% 50 QCS QEKT1HM-105 E CAPACITOR .010MF 5% 50 QCS QEKT1HM-474 E CAPACITOR .22MF 20% 15 QCS		c 25	NCS21HJ-68	CAPACI	2% 50	
27 NCB21HK-4/ZAY C CAPACITOR 4/00PF 10X 29 NCB21HK-332AY C CAPACITOR 3300PF 10X 29 NCB21HK-332AY C CAPACITOR 3200PF 10X 29 NCB21EK-153AY C.CAPACITOR .015MF 10X 33 NCB21EK-153AY C.CAPACITOR .015MF 10X 35 NCB21EK-153AY C.CAPACITOR .015MF 10X 35 NCB21EK-133AY C.CAPACITOR .015MF 10X 36 QCS11HJ-100 C.CAPACITOR .047MF 10X 36 QCS11HJ-101AY C CAPACITOR .047MF 20X 50X 01 QEKK1HM-474 E CAPACITOR .010MF 5X 50X 01 QEKK1HM-105 E CAPACITOR .010MF 5X 50X 01 QEKK1HM-105 E CAPACITOR .010MF 5X 50X 01 QEKK1HM-105 E CAPACITOR .22MF 20X 10X 01 QEKK1HM-474 E CAPACITOR .22MF 20X 50X 014 NCB21HK-681AY C CAPACITOR .22MF 20X 50X 01 QEKK1HM-474 E CAPACITOR .22MF 5X 50X 01 QEKK1HM-474 E CAPACITOR .22MF 5X 50X 01 QEKK1HM-474 E CAPACITOR .22MF 5X 50X 01 QEKK1HM-103 FILM CAPACITOR .22MF 5X 50X 01 QEKK1HM-103 FILM CAPACITOR .22MF 5X 50X 01 QEKK1HM-103 FILM CAPACITOR .22MF 5X 50X 01 QEKK1HM-105 E CAPACITOR .22MF 5X 50X 01 QEX 01 Q		C 26	NCB21HK-68		10%	
28 NCB21HK-252AY C CAPACITON 5.020MF 10X 20 NCB21HK-223AY C CAPACITOR 0.020MF 10X 30 NCB21EK-153AY C CAPACITOR 0.015MF 10X 32 NCB21EK-153AY C CAPACITOR 0.015MF 10X 32 NCB21EK-153AY C CAPACITOR 0.015MF 10X 35 NCB21EK-173AY C CAPACITOR 0.015MF 10X 35 NCB21EK-173AY C CAPACITOR 0.047MF 10X 35 NCB21HJ-10AY C CAPACITOR 0.010MF 5X 50 NCS21HJ-10AY C CAPACITOR 0.010MF 5X 50 NCS21HJ-10AY C CAPACITOR 0.010MF 5X 50 NCB21HK-10AY C CAPACITOR 0.010MF 5X 50 NCB21HK-681AY C CAPACITOR 0.010MF 5X 50 NCB21HK-81AY C CAPACITOR 0.010MF 5X 50 NCB21HK-81AY C CAPACITOR 0.010MF 5X 50 NCB21HJ-10AY C CAPACITOR 0.010MF 5X 50 NCB21HJ-10AY C CAPACITOR 0.010MF 5X 50 NCB21HJ-10AY C CAPACITOR 0.010MF 5X 50 NCBC41HM-105 E CAPACITOR 0.010MF 5X		72 0			10%	
CAPACITOR		, אם ה	NCBZIEK-J		400	
32 NCB21EK-15347 C.CAPACITOR .015MF 10% 33 NCB21EK-15347 C.CAPACITOR .015MF 10% 34 NCB21EK-47347 C.CAPACITOR .015MF 10% 35 NCB21EK-47347 C.CAPACITOR .016MF 10% 36 QCS11HJ-100 C.CAPACITOR .047MF 10% 36 QCS11HJ-1047 C.CAPACITOR .010MF 5% 50% 36 QCS11HJ-103 FILM CAPACITOR .010MF 5% 50% 36 QCS11HJ-103 FILM CAPACITOR .010MF 5% 50% 36 QFV71HJ-103 FILM CAPACITOR .010MF 5% 50% 36 QFV71HJ-103 E.CAPACITOR .010MF 5% 50% 36 QFV71HJ-105 E.CAPACITOR .00MF 20% 51% 36 QFV71HJ-105 E.CAPACITOR .00MF 20% 51% 36 QFV71HJ-103 FILM CAPACITOR .010MF 5% 50% 36 QFV71HJ-105 E.CAPACITOR .010MF 5% 50% 36 QFV71HJ-105 E.CAPACITOR .010MF 5% 50% 36 QFV71HJ-224 F.CAPACITOR .010MF 5% 50% 36 QFV71HJ-224 F.CAPACITOR .010MF 5% 50% 36 QFV71HJ-224 F.CAPACITOR .00MF 20% 51% 37 QFV71HJ-103 F.CAPACITOR .00MF 20% 51% 37 QFV71HJ-104 F.CAPAC		2 2	DEVAUN-4	-1	* AUC	
33 NCB21EK-1534Y C.CAPACITOR .015MF 10% 344 NCB21EK-4734Y C.CAPACITOR .018MF 10% 35 NCB21EK-4734Y C.CAPACITOR .018MF 10% 35 NCB21EK-4734Y C.CAPACITOR .010MF 10% 35 SOV 02 GEKTIHM-474 C.CAPACITOR .010MF 5% 50% GEKTIHM-103 FILM CAPACITOR .010MF 5% 50% GEKFIHM-356ZN E.CAPACITOR .010MF 5% 50% GEKFIHM-356ZN E.CAPACITOR .010MF 5% 50% GEKFIHM-405 E.CAPACITOR .010MF 5% 50% GEKFIHM-405 E.CAPACITOR .010MF 5% 50% GEKFIHM-405 E.CAPACITOR .00MF 5% 50% GEKFIHM-405 E.CAPACITOR .22MF 5% 50% GEKFIHM-474 E.CAPACITOR .47MF 20% 50% GEKFIHM-474 E.CAPACITOR .47MF 20% 50% GEKFIHM-105 E.CAPACITOR .47MF 20% 50% GEKFIHM-		2 6			10%	
34 NCB21EK-183AY C CAPACITOR .018MF 10X 35 NCB21EK-473AY C CAPACITOR .047MF 10X 36 QCS11HJ-100 C.CAPACITOR .047MF 10X 36 QCS11HJ-100 C.CAPACITOR .47MF 20X 50V 01 QEK41HM-474 E CAPACITOR .010MF 5X 50V 03 QFV71HJ-101AY C CAPACITOR .010MF 5X 50V 04 NCB21HK-681AY C CAPACITOR .010MF 5X 50V 05 QEKF1AM-336ZN E CAPACITOR .010MF 5X 50V 05 QEKF1AM-336ZN E CAPACITOR .00MF 20X 50V 06 QEKF1AM-305ZN E CAPACITOR .00MF 20X 50V 07 QEK71HM-405 E CAPACITOR .22MF 5X 50V 08 NCS21HJ-101AY C CAPACITOR .47MF 20X 50V 08 NCS21HJ-103 FILM CAPACITOR .00MF 5X 50V 09 NCS21HJ-103 FILM CAPACITOR .00MF 5X 50V 09 NCS21HJ-103 FILM CAPACITOR .00MF 5X 50V 09 NCS21HJ-26X FILM CAPACITOR .00MF 5X 50V 09 NCS21HJ-224 FICAPACITOR .22MF 5X 50V 09 QEK71AM-105 E CAPACITOR .22MF 5X 50V 09 QEK71AM-105 E CAPACITOR .22MF 5X 50V 09 NCS21HJ-224 FICAPACITOR .20MF 5X 50V 09 NCS21HJ-201		C 33			10%	
SERVING   SERV		C 34			10%	
36 QCS11HJ-100 C.CAPACITOR 10PF 5% 50V 01 QEK41HM-474 E CAPACITOR 474MF 20% 50 Q RVS21HJ-1014Y E CAPACITOR 474MF 20% 50 Q RVS71HJ-1014Y C CAPACITOR 010MF 5% 50 Q RQF71HM-103 FLM CAPACITOR 5% 50 Q RCK1HM-105 E CAPACITOR 5% 50 Q RCK1HM-105 E CAPACITOR 1.0MF 20% 11 Q RCK1HM-474 E CAPACITOR 1.0MF 20% 51 Q RCK1HM-474 E CAPACITOR 1.2MF 5% 50 Q G RCK1HM-474 E CAPACITOR 1.0MF 20% 50 Q RCK1HM-474 E CAPACITOR 1.0MF 20% 50 Q RCK1HM-474 E CAPACITOR 1.0MF 5% 50 Q RCK1HM-474 E CAPACITOR 1.0MF 5% 50 Q RCK1HM-103 FILM CAPACITOR 5% 50 Q RCK1HM-105 E CAPACITOR 33MF 20% 11 Q RCK1HM-105 E CAPACITOR 33MF 20% 11 Q RCK1HM-105 E CAPACITOR 1.0MF 20% 51 Q RCK1HM-105 E CAPACITOR 1.0MF 20% 50 Q RC	_	c 35		C CAPACITOR	10%	
01 QEK41HM-474		c 36		C.CAPACITOR	36	
02 NCS21HJ-101AY C CAPACITOR 100PF 5% 50 GEV71HJ-103 FILM CAPACITOR 680PF 10% 50 GEKF1AM-3362N E CAPACITOR 680PF 10% 50 GEKF1AM-3352N E CAPACITOR 33MF 20% 10 GEKF1HM-105 E CAPACITOR 1.0MF 20% 51 GEKF1HM-105 E CAPACITOR 1.0MF 20% 51 GEKF1HM-474 E CAPACITOR 1.0MF 20% 50 GEKF1HM-474 E CAPACITOR 1.0MF 20% 50 GEKF1HM-474 E CAPACITOR 1.0MF 20% 50 GEKF1AM-3352N E CAPACITOR 33MF 20% 10 GEKF1AM-3352N E CAPACITOR 33MF 20% 10 GEKF1HM-105 E CAPACITOR 33MF 20% 10 GEKF1HM-105 E CAPACITOR 1.0MF 20% 50		C 101	_	E CAPACITOR	20%	
03 QFV71HJ-103 FILM CAPACITOR .010MF 5% 5 04 NCB21HK-681AY C CAPACITOR 680PF 10% 5 05 QEKFLIAM-336ZN E CAPACITOR 1.0MF 20% 5 12 QEK71HM-105 E CAPACITOR 1.0MF 20% 5 12 QEK71HM-105 E CAPACITOR 1.0MF 20% 5 13 QFV71HJ-224 TF CAPACITOR 1.0MF 20% 5 14 NCB21HK-182AY C CAPACITOR 1.0MF 20% 5 02 NCS21HJ-101AY C CAPACITOR 1.0MF 20% 5 03 QFV71HJ-103 FILM CAPACITOR 1.0MF 5% 50 04 NCB21HK-81AY C CAPACITOR 1.0MF 5% 50 05 QEKFLAM-336ZN E CAPACITOR 33MF 20% 10 11 QEK71HM-105 E CAPACITOR 1.0MF 20% 5 12 QEK71HM-105 E CAPACITOR 1.0MF 20% 5 13 QFV71HJ-224 TF CAPACITOR 1.0MF 20% 5 14 NCB21HK-182AY C CAPACITOR 1.0MF 20% 5 11 QEK71HM-105 E CAPACITOR 1.0MF 20% 5 11 QEK71HM-105 E CAPACITOR 1.0MF 20% 5 11 QEK71HM-105 E CAPACITOR 1.0MF 20% 5 11 QEK71HM-105 C CAPACITOR 1.0MF 20	_	C 102	NCS21HJ	C CAPACITOR	24	
04 NCB21HK-681AY C CAPACITOR 680PF 10% 5 GEKF1AM-3362N E CAPACITOR 33MF 20% 10 GEK41HM-105 E CAPACITOR 1.0MF 20% 5 GEK41HM-105 E CAPACITOR 1.0MF 20% 5 GEV41HJ-224 TF CAPACITOR 20% 5 GEK41HM-474 E CAPACITOR 1800PF 10% 01 GEK41HM-474 E CAPACITOR 100PF 5% 50 GEK41HM-474 E CAPACITOR 100PF 5% 50 GEK71HJ-103 FILM CAPACITOR 100PF 5% 50 GEK71HM-103 FILM CAPACITOR 33MF 20% 10 GEK71HM-105 E CAPACITOR 33MF 20% 10 GEK71HM-105 E CAPACITOR 1.0MF 20% 5 GEK71HM-105 E CAPACI		C 103	QFV71HJ-103	CAPACIT	F 5%	
05 QEKF1AM 356ZN E CAPACITOR 35MF 20X 10 11 QEK41HM-105 E CAPACITOR 1.0MF 20X 51 13 QEK41HM-105 TF CAPACITOR 1.0MF 20X 51 14 NCB21HK-182AY C CAPACITOR 1800PF 10X 01 QEK41HM-474 E CAPACITOR 1800PF 10X 02 RC21HJ-101AY C CAPACITOR 47MF 20X 5 03 QEV71HJ-103 FILM CAPACITOR 010MF 5X 50 04 NCB21HK-681AY C CAPACITOR 33MF 20X 5 05 QEKF1AM-55AY C CAPACITOR 1.0MF 5X 50 05 QEKF1AM-105 E CAPACITOR 20X 5 11 QEK41HM-105 E CAPACITOR 1.0MF 20X 5 12 QEK41HM-105 C CAPACITOR 1.0MF 20X 5 13 QFV41HJ-224 TF CAPACITOR 1.0MF 20X 5 11 K NCB1HK-182AY C CAPACITOR 1.0MF 20X 5 10 GEK41HM-105 F CAPACITOR 1.0MF 20X		c 104	NCB21HK-6	ACI	10%	
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12 WEK41HM-105 E CAPACITON 1.20MF 20% 314 M2214K-14224 C CAPACITOR 2.20MF 5% 50 M2214K-14224 C CAPACITOR 1800PF 10% 50 M2214J-1014Y C CAPACITOR 2.47MF 20% 50 M2214J-103 FILM CAPACITOR 20MP 5% 50 M NCB214K-6814Y C CAPACITOR 33MF 20% 10 M2414M-105 E CAPACITOR 33MF 20% 10 M2414M-105 E CAPACITOR 1.0MF 20% 50 M2414J-224 TF CAPACITOR 1.0MF 20% 50 M2414J-224 TF CAPACITOR 1.0MF 20% 50 M2414J-224 TF CAPACITOR 1.20MF 2		0 111		E CAPACITOR	2 2	
14 NG21HK-124 C CAPACITOR 1800PF 10X 01 GEK41HM-474 E CAPACITOR 47MF 20X 5 02 NCS21HJ-101AY C CAPACITOR 100PF 5X 50 03 GEV71HJ-103 FILM CAPACITOR 680PF 10X 50 5 GEK71HM-105 E CAPACITOR 53MF 20X 10 GEK71HM-105 E CAPACITOR 1.0MF 20X 10 GEK71HM-105 E CAPACITOR 1.0MF 20X 5 11 NG NG1 10X 5 04 10X 10 NG NG1 10X 10X 10X 10X 10X 10X 10X 10X 10X 10	_	2112		TE CAPACION	, k	
01 GEK41HM-474 E CAPACITOR .47MF 20% 50 NCS21HJ-101AY C CAPACITOR 100PF 5% 50 G NCS21HJ-103 FILM CAPACITOR 680PF 10% 50 G GEKTAHM-336ZN E CAPACITOR 33MF 20% 10 G GEKTHM-105 E CAPACITOR 1.0MF 20% 51 G GEK41HM-105 E CAPACITOR 1.0MF 20% 51 G NCS41HM-105 E	_	117	NCR21HK	CAPACITOR	100	
02 NCS21HJ-111AY C CAPACITOR 100PF 5% 50 05 QFV71HJ-103 FILM CAPACITOR 010MF 5% 50 04 NCB21HK-681AY C CAPACITOR 680PF 10% 50 QEKF1AM-3362N E CAPACITOR 33MF 20% 10 QEK41HM-105 E CAPACITOR 1.0MF 20% 51 QEK41HM-105 E CAPACITOR 1.0MF 20% 51 QEK41HM-105 F CAPACITOR 1.0MF 20% 51 QEK41HM-105 C CAPACITOR 1.22MF 5% 50 04 NCESTER 100MF 20% 50 04 05 05 05 05 05 05 05 05 05 05 05 05 05		C 201	OFK41HM	E CAPACITOR	20%	
03 QFV71HJ-103 FILM CAPACITOR .010MF 5% 5 04 NCB21HK-681AY C CAPACITOR 680PF 10% 5 05 QEKF1AM-336ZN E CAPACITOR 33MF 20% 10 11 QEK41HM-105 E CAPACITOR 1.0MF 20% 5 12 QEK41HM-105 E CAPACITOR 1.0MF 20% 5 13 QFV41HJ-224 TF CAPACITOR .22MF 5% 50 14 NCB21HK-1824Y C CAPACITOR 1800PF 10% 104 NCB21HK-1824Y C CAPACITOR 100MF 20% 100M		C 202		C CAPACITOR		
04 NCB21HK-681AY C CAPACITOR 680PF 10X 5 05 QEKF1AM-3362N E CAPACITOR 53MF 20X 10 11 QEK41HM-105 E CAPACITOR 1.0MF 20X 5 12 QEK41HM-105 E CAPACITOR 1.0MF 20X 5 13 QFV41HJ-224 TF CAPACITOR 22MF 5X 50 14 NCB21HK-182AY C CAPACITOR 1800PF 10X		C 203		CAPACI	F 5%	
05 QEKF1AM-3362N E CAPACITOR 33MF 20% 10 QEK41HM-105 E CAPACITOR 1.0MF 20% 50 12 QEK41HM-105 E CAPACITOR 1.0MF 20% 50 13 QFV41HJ-224 TF CAPACITOR 22MF 5% 50 14 NOEVE14K-1824Y C CAPACITOR 1800PF 10% 104 104 105 104 104 104 104 104 104 104 104 104 104		C 204	_	C CAPACITOR	F 10%	
11 QEK41HM-105		c 205	_	E CAPACITOR	20% 1	
12 GEK41HM-105 E CAPACITOR 1.0MF 20% 5 13 GFV41HJ-224 TF CAPACITOR .22MF 5% 50 14 NCB21HK-182AY C CAPACITOR 1800PF 10% 14 NCB21HK-182AY C CAPACITOR 1800PF 10%		C 211	QEK41HM-1	CAPACI	.OMF 20%	
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THE ROBELTS - LOCAL CONTROL TO CO		٦,	WF V41HJ-22	ے د	74 70	
		ې ب	OEKE1CM-10	TADAT	204 1	

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	SUFFIX			G1,6,GE B,E								
BLOCK NO 03		330K 5% 1/10W 15K 5% 1/10W 270 5% 1/10W 8.2K 5% 1/10W 330K 5% 1/10W	15K 5% 1/10W 270 5% 1/10W 8.2K 5% 1/10W 100 5% 1/8W 18K 5% 1/10W	22K 5% 1/10W 22K 5% 1/10W								
	ARTS	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	MG RESISTOR MG RESISTOR CONNECTOR FM FRONT END	SEMI.V.RESISTOR SEMI.V.RESISTOR SEMI.V.RESISTOR SEMI.V.RESISTOR							
					QVPA603-333A QVPA603-223A QVPA603-223A QVPA603-223A							·
	A REF.	1 !		R 912 R 913 TP 1 TU 1	VR 1 VR 3 VR111 VR211							
	SUFFIX										B/E/6I G/GE	B,E,GI G,GE
BLOCK NO. DELL	REMARKS	.010MF 10% 50V 47MF 20% 16V 1.0MF 20% 50V 4.7MF 20% 25V				1.0K 5% 1/10W 150 5% 1/10W	N X X X X	5x 1/1 5x 1/1 5x 1/1	5x 1/1 5x 1/1 5x 1/1 5x 1/ 5x 1/1	5x 1/1 5x 1/1 5x 1/1 5x 1/1 5x 1/1	68K 5% 1/10W 27K 5% 1/10W 5.6K 5% 1/10W 115 5% 1/10W 27K 5% 1/6W 22K 5% 1/6W	N N N N
	PARTS NAME	C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C FILTER	C FILTER CERA ROCK CONNECTOR CONNECTOR CONNECTOR	CONNECTOR CONNECTOR SI DIODE DIODE	IC IC IC POST PIN INDUCTOR			RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	RESISTOR RESISTOR RESISTOR RESISTOR RESISTOR	1	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR CARBON RESISTOR CARBON RESISTOR	
	PARTS NO.	NCB21HK-103AY QEK41CM-476 QEK41HM-105 QEK41EM-475 VCF2S3B-102	VCF2M3B-104 CSB456F23 VMC0136-002 VMC0136-005	VMC0136-007 TXLL-005-M MA165 HSM2838C HSM2838C	LA1862M UPC1228HA HA12135AF-EL VMZ0015-014 VQP025K-4R7Y	VQT7F07-504 2SC2814 (F4F5) HL UN2213 UNSAO2J-102NY NRSAO2J-151NY	NRSA02J-391NY NRSA02J-203NY NRSA02J-103NY NRSA02J-331NY NRSA02J-182NY	NRSA02J-221NY NRSA02J-331NY NRSA02J-392NY NRSA02J-473NY NRSA02J-123NY	NRSA02J-562NY NRSA02J-153NY NRSA02J-222NY NRSA02J-562NY NRSA02J-683NY	NRSA02J-472NY NRSA02J-473NY NRSA02J-682NY NRSA02J-752NY NRSA02J-333NY	NRSA02J-683NY NRSA02J-273NY NRSA02J-562NY NRSA02J-150NY QRD161J-273 GRD161J-223	NRSA02J-333NY NRSA02J-153NY NRSA02J-470NY
	۵.	902 NC 911 QE 912 QE 913 QE	V C C C			91113 21103 211103 211103		8 6 0 1 1 2 1 N N N N N N N N N N N N N N N N	-1	1		

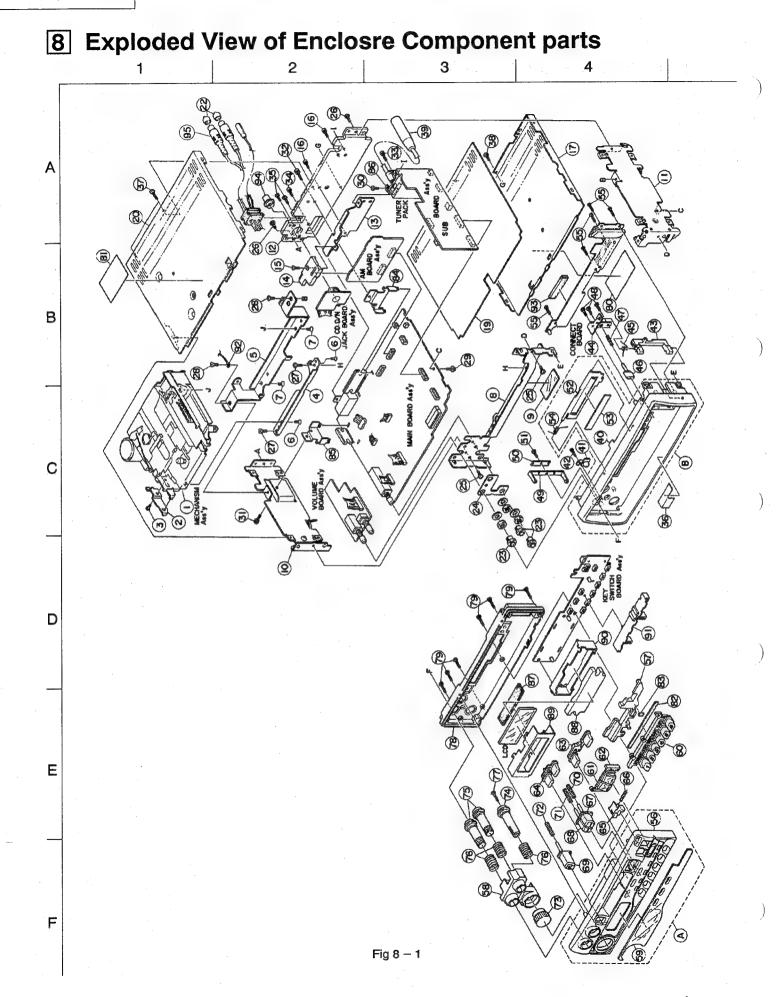
■ Key/Display BOard 2 3 4 1 Α В C D E

Fig 7 - 4

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## ● Key/Display Board Parts List

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\$ 609 @\$@1811-V01Z \$ 610 @\$@1811-V01Z \$ 611 @\$@1811-V01Z \$ 612 @\$@1811-V01Z

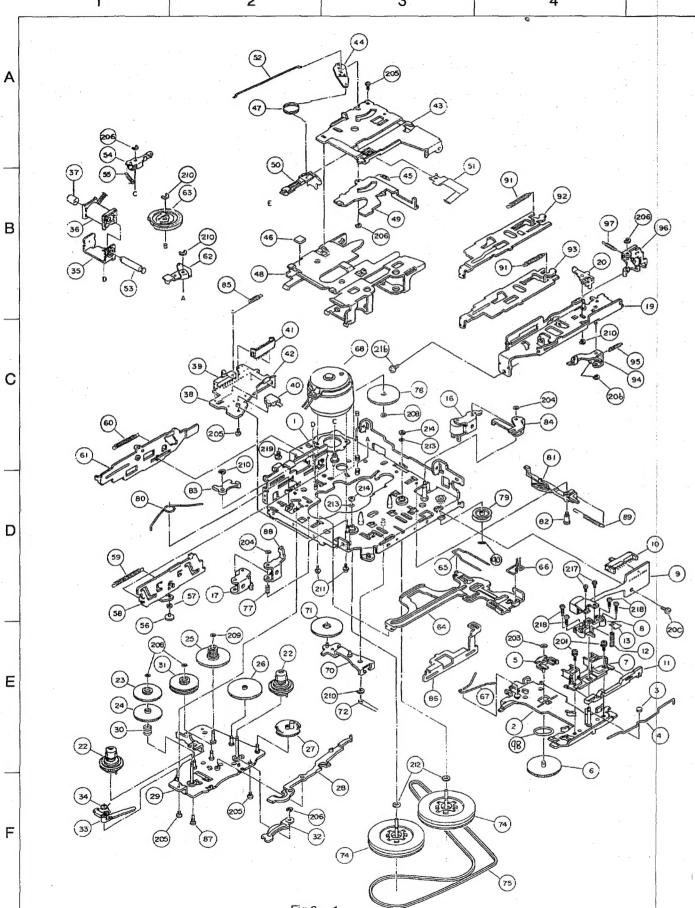


### Enclosuer Component Parts List

		<u> </u>		BLOCK NO. MIMM	Ш	<b>,</b>	
Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLE
t	Α	ZCKSRT70G-NPA	NOSE PIACE ASSY		1		
		ZCKSRT7OK-NPA	NOSE PIECE ASSY		1	B,E,GI	
	В	ZCKSRT70K-FB	FRONT PANEL ASSY		1		
ı	1		MECHANISM ASS'Y	2CH HEAD MECHA	1		
	2	VKL7226-003	EJECT LEVER		1		
1	3	SPSK2625Z	MINI SCREW	FOR EJECT LEVER	1		
I		VKM3645-001	MECHA BRACKET F		1		
ł	5	VKM3594-001	MECHA BRACKET R		1		
1	6	SSSP3005Z	SCREW	MECHA BRACKET F	2		
	7	SSSP3005Z	SCREW	MECHA BRACKET R	2		
T	8	VKM3642-001	FRONT BRACKET		1		
l	9	VYSS1R4-040	SPACER	F.BRACEK BOTTOM	1		
ı	10	VKM3643-002	SIDE BRACKET L		1		
	11	VKM3644-001	SIDE BRACKET R		1		1
	12	VJC3247-008	REAR PANEL		1		
Ť	13	VKL7291-001	BRACKET	REAR PANEL	1		
	14	VKS3531-001	TUNER HOLDER	AM TUNER BOARD	1		1
	15	SSST2606Z	SCREW	TUNER HOLDER	1		
	16	LPSP2606Z	SCREW	BRACKET	2		
1	17	VKM3352-004	BOTTOM COVER		1		
1	19	VMA3209-002	INSULATOR		1	,	
	20	VKM3398-005	TOP COVER	1	1		
Ì	22	VYTA500-001	PIN CAP		2		1
ļ	23	VKS5439-001	SHAFT KNOB	1	3		
	24	VKL7274-002	VOLUME HOLDER		1		-
1	25	SDST2606Z	SCREW	FRONT+SIDE(L,R)	2		
Ì	26	SDST2606Z	SCREW	SIDE L,R+REAR	2		
1	27	SDST2606Z	SCREW	FRONT BRACKET	2		
Ì	28	SSST2606Z	SCREW	M.BKT,SIDE	2		
l	29	SDST2606Z	SCREW	MAIN BARD+SIDE	1		
1	30	SDST2606Z	SCREW	TUNER PACK	1		
	31	LPSP3005Z	SCREW	SIDE IC BRACKET	1		
	32	LPSP2606Z	SCREW	R.PANEL+IC BKT	1		1
1		LPSP2606Z	SCREW	ANTENA CORD	1		
		LPSP2606Z	SCREW	11PIN CONNECTOR	1		
†		SDSF2608Z	SCREW	REAR+MIN DIN JA	2		
}		VNF3428-001	POP	·	1		
		LPSP2606Z	SCREW	TOP COVER	2		
-		LPSP2606Z	SCREW	BOTTOM COVER	1		
I		VMP0029-027	ANT CORD		1		
†		VJC2489-002	FRONT CHASSIS		1		
-		VJK4399-002	LENS		1		1
		SPSN1755N	MINI SCREW	F.CHASSIS+LENS	1		
-		VKS5438-001	LOCK LEVER		1		
1		VKL7267-001	LEVER BRACKET		1		
4		VKW5093-001	TORSION SPRING	FOR LOCK LEVER	1		
		VXP5139-001	RLS KNOB		1		
-		VKW3001-298	COMP.SPRING	RLS BUTTON	1		
		SDSF2006Z	SCREW	F.CHAASIS+L.BKT	3		1
-		VKY4665-00C	LOCK SP ASS'Y		1		
4		VKL7647-001	PLATE		1	<del></del>	1
		SDSF2008M	SCREW	SPRING PLATE	1		
		VJC4145-002SS	CASSETTE LID		1		
			LID PLATE		1		1
1		VJC4146-021 VKW4947-002	DOOR SPRING		1		ŀ

				BLOCK NO. MIMM			
RE	F.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
<del>                                     </del>	55	SPSN1755N	MINI SCREW	F.CHASSIS+C.PWB	5		
		VJG1221-002	FRONT PANEL		1		İ
		ZCKSRT70K-LENS	LIGHT LENS ASSY	SERVICE PARTS	1		1
		VJK2182-001	KNOB LENS		1		
	1	VJK2183-001	FINDER		1	B,E,GI	
		VJK2183-002	FINDER		1	G,GE	
	60	VXP2066-002	PRESET BUTTON		1		
		VXP3571-002	DOWN BUTTON		1		
	1	VXP3572-002	UP BUTTON		1		
		VXP3577-003	PUSH BUTTON		1		
		VXP3578-001	PUSH BUTTON		1		
			DETACH BUTTON(F		1		
		VXP3573-003	4		1		
		VKW3001-302	COMP. SPRING		1		
	- 1	VXP3574-001	FF BUTTON		1		
		VXP3575-001	REW BUTTON		1		-
	- 1	VXP3576-001	EJECT BUTTON	FOR TE BUTTON	1		
	- 1	VKW3001-304	COMP. SPRING	FOR FF BUTTON	1		
		VKW3001-304	COMP. SPRING	FOR REW BUTTON	1		
	72	VKW3001-304	COMP. SPRING	FOR EJECT BUTTO	1		1
	73	VXL4428-001	VOL KNOB		1		
	74	VKS5445-001	VOL KNOB(R)		1		i
	75	VXL4429-001	TONE KNOB		2		1
	76	VKW5071-001	COMP. SPRING	FOR TONE KNOB	3		
		SPSN1755N	MINI SCREW	VOL KNOB(F)+(R)	1		
		VJG1222-002	REAR COVER		1		
_		SPSN1755N	MINI SCREW	FRONT+REAR	7		
	. 1	VYN3430-003SA	NAME PLATE		1	GI	
	30	VYN3430-001SA	NAME PLATE		1		1
	- 1	VYN3430-002SA	NAME PLATE		1	G,GE	
	0.4	VND4391-001	CAUTION LABEL	·	1	0, 02	
			SPACER	FOR PRESET BUTT	1		+
	,	VYSH102-084		FOR PRESET BUTT	1		
	1	VYSH102-085	SPACER	FUR PRESE! BUIL	1		İ
	1	VKL7275-002	IC BRACKET		1		1
		VKL6996-001	IC BRACKET		1		
		VMA4397-003	SHEILD PLATE		1		+
	87	VMZ0121-001	INTER CONNECTOR		1		1.
	88	VJK3612-001	LCD LENS		1		
	89	VKM3646-001	LCD CASE		1		
	90	VKS3625-001	LENS CASE		1		1
	91	VKS3622-002	LED HOLDER		1		
	92	VWE240-07NTA1	LUG WIRE		1		
	,	VYSR102-024	SPACER	CONNECTOR BOARD	1		
		VYTA510-001	DIN CAP		1		ļ
	95	VMP3249-102	PIN CORD ASS'Y		1		1.
		VIII 3247 102	711 0000 7.00				<u> </u>
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	1				1	1	



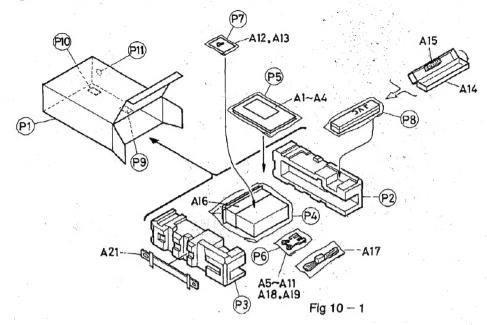


			BLOCK NO. M2			1
REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CL
	194001512AT	CHASSIS ASS'Y		1		
2	194016503T	HEAD PANEL ASS'Y		1		
3	19400303T	SP ROLLER		1 1		
4	19400304T	P.R.SPRING		1		
- 5	19400305T	P.GEAR METAL		1		
6	19400306T	GEAR		1		
7	19400312T	TAPE GUIDE U		1		
8	19400327T	HEAD HOLDER B		1		
9	62011702T	HEAD	P-7542-BB0571	1		
	64020207T	SLIDE SWITCH	SSSSA3002A	1		
	19400328T	SHIFT PLATE B		1		
	19400315T	H.G SPRING	* •	1		
	9F2635010T	FASTEN WASHER	· [:	1		İ
	194004301T	P.ROLL.ARM(F)AS		1		į
1	194004302T	P.ROLL.ARM(R)AS		1		
	1940043021 194005503T	F.R.BKT(M)ASS'Y	<del></del>	1		1
		SEESAW P(M)ASY.		1		
	194005504T			2		i
. 1	194006302T	T.REEL ASS'Y		1		
	19400612T	P.GEAR (R)		1		
	19400613T	F.GEAR (R)		1		
1	19400615T	P.D.GEAR		1		
	19400616T	E.D.GEAR		1		
,	19400617AT	REVERSE GEAR(M)		1		
	19400648T	E.D.PLATE B		1		
	194002501T	M.G.P.SEMI-ASY.		1		
30	19400635T	TN SPRING		1		1
31	194006312T	P.CLUTCH ASS'Y		1 1		
32	194014129T	LIFT UP PLATE		1		
33	19401464T	ANTI-REV ARM		1		
1	19401460T	TRI ARM SPRING		1 1	·	
	19401431T	P.BRACKET(K)		1		-
	19401432T	K.F COIL ASS'Y		1		1
	19401433T	CORE(K)		1		
1	19400704T	SW SUBSTRATE		1		
		SLIDE SWITCH	SSSSA2001A	1		
	64020206T	PUSH SWITCH	SPVC11001A	1		+
1	64020405T		53253-1020	1		
	68140248T	CONNECTOR	ERB12-01	1		
ì	ERB12-01	DIODE	CKDIZ-OI	1		
1	19400801T	CASE LIFTER	·			
	184008503T	P.E PLATE ASS'Y		1		+
1	18400820T	SPRING		1		
	18400875T	CUSSHION RUBBER		1		
. 1	18400813GT	REVERSE SP.C		1		
48	19401410T	CASSETTE CASE M		1		
49	19400804T	C.D PLATE B		1		
50	19400810T	PACK SLIDER		1		1
51	19400806T	PACK PRESS.SP.		1		1
	18400823T	P.E SPRING		1 1		
	19401434T	PLUNGER(K)		1		
1	194020505T	T.A.PLATE ASS'Y		1		1
	19401437T	T.A.PLATE SP.		1		-
	19400901T	H.P.ROLLER(A)		1	•	
70		1	1	4 1		
57	19400902T	H.P.ROLLER(B)	1	1 1		5

BLOCK	310	BAI TIBAIRA	
RIGER	M ( )	3461 1 1418141	1   1   1
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Δ	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
7		19400905T	C.H.SPRING		1		-
	- 1	19400906T	PUSH LEVER SP.		1		
١	61		PUSH LEVER M		1		
1		194020502AT	K.F PLATE ASS'Y		1		
		194014739T	K.F CAM GEAR		1		
$\dagger$	64		MAIN PLATE		1	***************************************	
İ	- 1	19401002T	M.S.SPRING		1		
	66		H.S.SPRING		1	,	
	-	19401444T	K.F.SPRING		1		
		194011310T	MOTOR ASS'Y	MCI-5U3LCKA	1		
+		194012504T	FR PLATE ASS'Y		1		
	71		F.GEAR		1		
	72		FR SPRING M	}	1		
	74		F.L.CAPS.ASS'Y				
	75	19401417T	MAIN BELT		2		
†	77	18400437T	P.P SPRING		1		
١	,	194014123T	MAIN GEAR M		1		
	79	194014115T	MIDDLE PULLEY		1		
	80	19401443T	HEAD PANEL SP.M		1		
	81	19401405T	TRIGGER ARM(C)		1		
Ť	82	19401406T	COLLAR SCREW(T)		1		
	83	19401442T	H.P.PUSH ARM(K)		1		
	84	19401409T	SEESAW WRK.PLT.	1	1		
	85	19401412T	POWER SW.SPRING		1		
	-86	194014127T	FR SLIDE PLT.M		1		
T	87	19401415T	COLLAR SCREW(P)		1		
		19401416T	H.P.RETURN ARM		1		
	3	19401407T	T.A.SPING(C)		1		
	90	9W0225010T	P.WASHER CUT	0.85X2.8X0.25	1		1
		19401589T	FR LEVER SPRING		2		
T	92	19401590T	PUSH LEVER		1		
	93	19401591T	PUSH LEVER		1		
ŀ		19401503T	P.C.PLATE		1		
		19401504T	P.C.SPRING		1		
1		19401505T	ROCK PLATE (M)		1		
	97	19401506T	ROCK PLATE SP.M		1		-
		9W0540020T	HL WASHER	10 X 14 X 0.4	1		}
		9P1220051T	S TAPPING SCREW	M2 X 5	1		
		9P0220051T	TAMS SCREW	M2 X 5	2		
1		9W0640070T	HL WASHER CUT	2.1 X 4 X 0.4	1 1		-
		9W0630060T	HL WASHER CUT	1.6 X 3.8 X 0.3	2		
	1	9C0420303T	S TAPPING SCREW	FOR CAMERA M2X3	4		
		9E0100152T	E RING	S 1.5 1.2X3X0.25	5 3		
		9W0625030T	HL WASHER CUT		1		
1		9W0630050T	HL WASHER CUT	1.6 X 3.4 X 0.3	3		<del></del>
1		9E0100202T	E RING	\$2.0			
		9P0220031T	TAMS SCREW	M2 X 3 2.1 X 5 X 0.13	2 2		
		9W0513060T	HL WASHER	1.85 X 3.2 X 0.	2		
		9W0520010T	HL WASHER CUT	1.85 X 3.2 X 0.5	2		
+		9W0650030T	TAMS SCREW	M2.6 X 4	1		+
-		9P0226041T	SCREW	FOR HEAD	2		
		9F2720401T		ו או שבאה	4		
		9F2220071T	ADJUST SCREW	M2.6 X 3.5	1		
1	219	9P0226531T	SCREW	116.0 N 3.3	1		

# 10 Packing Illustration and Parts List



_			_	
	naci	<b>dina</b>	<b>Parts</b>	liet
_	Date	MILL	raits	LIGI

V.	P	au	Killy Parts Lis	L	BLOCK NO. MIMM			
A	RI	.च	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	A	1	VNN3430-211	INSTRUCTIONS		1		
1			VNN3430-451	INSTRUCTIONS		1	E	1
1			VNN3030-481	INSTRUCTIONS		1	E	1
ŀ			VNN3430-471	INSTRUCTIONS		1	GI	1
1	A	2		CAUTION SHEET		1		1
1	A		BT-20066A	WARRANTY CARD		1	В	
1	,,		BT-20060A	WARRANTY CARD	Í	1	В	
ł			BT-20135	WARRANTY CARD		1	G	1
Ì	A	4	VND3050-001	IDENTITY CARD		1	ļ	1
ı	A	5		PLUG NUT		1		1
-	A	- 6		MOUNT BOLT		1		
1	A	7		LOCK NUT	FOR MS	1	i	1
١	A	B		WASHER		1 1		1
1		9		SIDE SPRING		2	ł	1
1	A		SSSP3006Z	SCREW	FOR SIDE SPRING	2		1 .
ļ	A			HOOK	FOR SIDE OF KING	2		-
1	A	11		SCREW		1 1		
۱	A		SPSJ1725M	SHEET		1 1	i	1
١	A		VND4619-001			1 1	l	1
Ì	A	14		HARD CASE		1 1	1	
ļ	A	15		SPACER		1		
ı	A	16		MOUNTING SLEEVE		1 :		
į	A	17		11P CORD ASS'Y		1 4		1
ı	A		VKL7649-001	CORD HOLDER	FOR CORD HOLDER	1 4	i '	
١	A	19		WIRE GLAMP	FOR CORD HOLDER	1 4		1
1	A	21		STAY	P6.A5-A11.A18-A	1		<del> </del>
1	KI		KSRT70K-SCREW1	SCREW KIT 1 SCREW KIT 2	P7,A12-A13	1		1
1	KI				PRINTED IN SING	1	i	1
ł	P	1	VPC3430-001	CARTON	PRINIED IN SING	1 1	f	1
I	P	5		CUSHION(L)		1		I
1	P	3		CUSHION(R)	FOR SET	1		-
١	P	4		POLY BAG		1 4		i-
1	P	5		POLY BAG	INST.BOOK	1		200
Į	P	6		POLY BAG	SKREW KIT 1	1		ŀ
I	P	7		POLY BAG	SKREW KIT 2	1		1 2 2
1	P	8	QPGA010-03003	POLY.BAG	FOR HARD CASE	1 1	G	+
١	P	9		SERIAL TICKET	CARTON	1 4	GE,GI	l .
1			VND3046-001	SERIAL TICKET	CARTON	1 4		
l			VND3046-003	SERIAL TICKET	p.ex.	1	E	
۱			VND3046-004	SERIAL TICKET		1	В	1
J	Р	10		EAN CODE LABEL		1 1		-
ı	P	11	QZLA001-005	GREEN POINT LAB		1	G	1
ı				The state of the s		.1.		1
ļ				The second secon		T		
1			;			1		l